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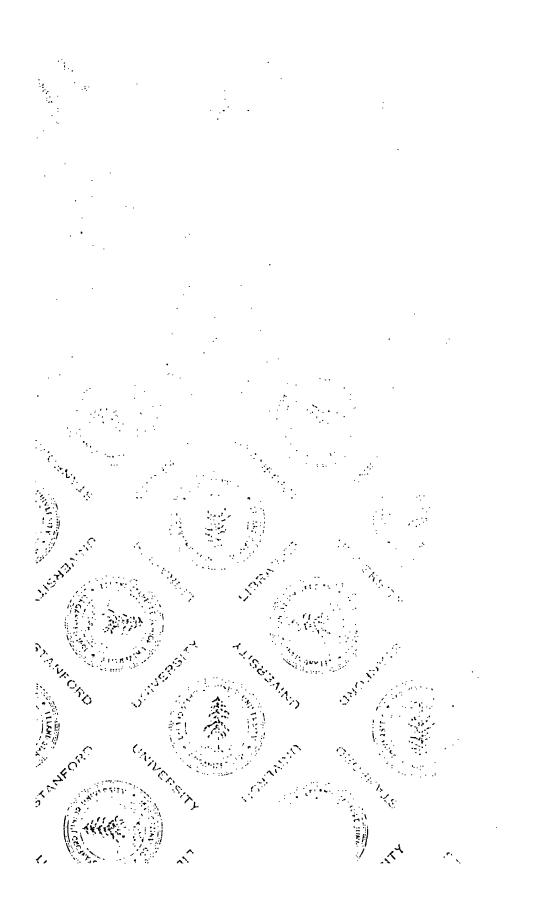
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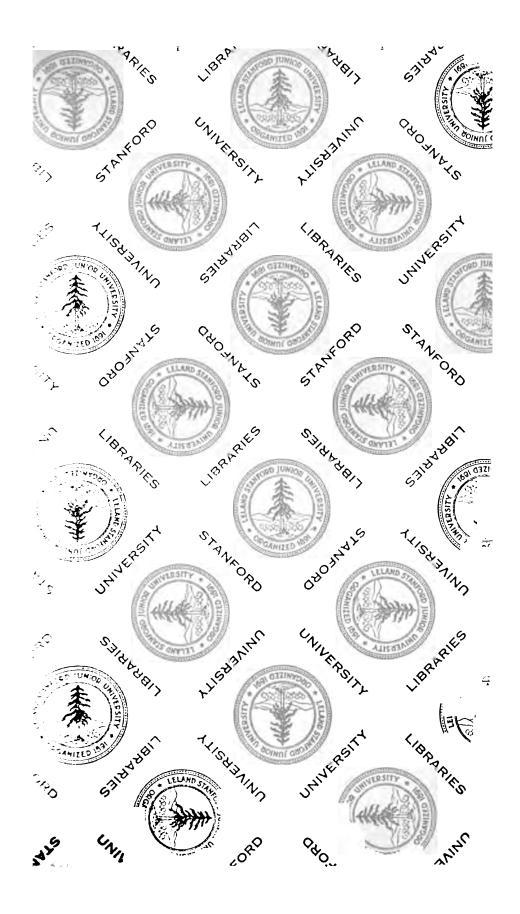
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NAVY DEPARTMENT APPROPRIA-TION BILL, 1923

HEARING

BEFORE

SUBCOMMITTEE OF HOUSE COMMITTEE ON APPROPRIATIONS

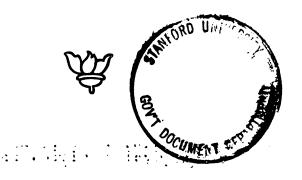
CONSISTING OF

MESSRS. PATRICK H. KELLEY (CHAIRMAN), BURTON L. FRENCH, CHARLES R. DAVIS, JAMES F. BYRNES, AND WILLIAM B. OLIVER

IN CHARGE OF THE

NAVY DEPARTMENT APPROPRIATION BILL FOR 1923

SIXTY-SEVENTH CONGRESS
SECOND SESSION



WASHINGTON GOVERNMENT PRINTING OFFICE 1922

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COMMITTEE ON APPROPRIATIONS.

House of Representatives.

SIXTY-SEVENTH CONGRESS, SECOND SESSION.

MARTIN B. MADDEN, Illinois, Chairman.

CHARLES R. DAVIS, Minnesota. DANIEL A. ANTHONY, Jr., Kansas. WILLIAM S. VARE, Pennsylvania. JOSEPH G. CANNON, Illinois. C. BASCOM SLEMP, Virginia. SYDNEY ANDERSON, Minnesota. WILLIAM R. WOOD, Indiana. LOUIS C. CRAMTON, Michigan. PATRICK H. KELLEY, Michigan. EDWARD H. WASON, New Hampshire. WALTER W. MAGEE, New York. GEORGE HOLDEN TINKHAM, Massachusetts. BURTON L. FRENCH, Idaho. MILTON W. SHREVE, Pennsylvania. CHARLES F. OGDEN, Kentucky. WILLIAM H. STAFFORD, Wisconsin.

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MARCELLUS C. SHEILD, Clerk.





NAVY DEPARTMENT APPROPRIATION BILL, 1923.

MEARINGS CONDUCTED BY THE SUBCOMMITTEE, MESSRS. PAT-BICK H. KELLEY (CHAIRMAN), BURTON L. FRENCH, CHARLES B. DAVIS, JAMES F. BYRNES, AND WILLIAM B. OLIVER, OF THE COMMITTEE ON APPROPRIATIONS, HOUSE OF REPRESENTA-TIVES, IN CHARGE OF THE NAVY DEPARTMENT APPROPRIA-TION BILL FOR THE FISCAL YEAR 1923, ON THE DAYS FOL-LOWING, NAMELY:

Monday, March 6, 1922.

STATEMENTS OF COL. THEODORE ROOSEVELT, ASSISTANT SECRETARY; REAR ADMIRAL DAVID POTTER, CHIEF OF THE BUREAU OF SUPPLIES AND ACCOUNTS; AND MR. CLYDE REED, SPECIAL ASSISTANT TO THE PAYMASTER GENERAL.

Mr. Kelley. We have with us this morning the Assistant Secretary of the Navy; Admiral Potter, the Chief of the Bureau of Supplies and Accounts, and his assistants. I rather assume that the Secretary of the Navy and the Assistant Secretary of the Navy would prefer to make whatever statement or statements they desire to nake later, in the light of the hearings, rather than at the present ime, so we will go ahead this morning with Admiral Potter, Chief f the Bureau of Supplies and Accounts. Perhaps I ought to say in ehalf of the committee that we are very much pleased to have Col. loosevelt, the Assistant Secretary, with us, and that we will be elighted to have him or the Secretary here at any time during the earings that it is convenient for them to be here. Col. ROOSEVELT. I thank you, Mr. Chairman.

Mr. OLIVER. I believe you voice the sentiment of the full comuttee.

OST OF OPERATION AND MAINTENANCE OF VESSELS FISCAL YEARS 1916 AND 1921, AND FIRST QUARTER FISCAL YEAR 1922.

Mr. Kelley. Now, Admiral Potter, a few preliminary questions elative to the method of keeping abreast of the expenses of the lavy before we go into the details. I have here your annual report or 1921. When was that report published?

Admiral POTTER. That report was published in November; the ata was finished and assembled in October, but actually printed in ovember, 1921. It represents the assembled data for the period nding June 30, 1921.

Mr. Kelley. That report contains tables showing the cost of main-

enance and operation for 1921?

Admiral Potter. Yes, sir.

Mr. Kelley. Of every ship in the Navy?

Admiral POTTER. Of every ship in the Navy; yes, sir. It includes some accumulated charges from ships which at the end of the year were no longer in commission, but against which charges had come in since the prior report.

Mr. Kelley. What method, if any, have you of keeping the Secretary of the Navy advised during the year as to the cost of mainte-

nance and operation of any particular ship or station?

Admiral POTTER. We do not send a regular report in unless it is asked for; we make special reports from time to time to the chiefs of bureaus, if they ask for them, as to any particular ship. Ordinarily such tables as I have prepared here are not prepared in this definite form until toward the end of the year, when we do it in the regular process. As I have said, they are gotten out in October or November.

Mr. Kelley. Then, generally speaking, unless the Secretary of the Navy asks for it specifically, there is no information conveyed to him at regular periods showing the cost of operation and maintenance of

any particular ship?

Admiral POTTER. No, sir; unless the Secretary or some bureau You understand, we send a monthly report of charges asks for it. upon all appropriations to the various bureaus concerned, but not as to ships unless asked for.

Mr. Kelley. Then the Secretary would know at the end of every

month just the state of each particular appropriation?

Admiral Porter. Yes, sir.

Mr. Kelley. But he would not know how the expenditures for that month were distributed over the Navy?

Admiral POTTER. Precisely; yes, sir.

Mr. Kelley. I wondered whether you had ever thought about the advisability of so changing your system of bookkeeping as would give the Secretary at more frequent intervals a bird's-eye view of the expenditures for various ships and shore activities during the

year while the money was yet being expended.

Admiral POTTER. It has not been done in the past, yet we have just demonstrated, in preparing this table, that, allowing a sufficient lapse of time for the receipt of the necessary returns, it can be done, and I think it might be a good idea if we should furnish the department with such information at such times as it may be deemed neces-Of course, if we began to prepare such data in time and in a more regular manner it would not be so difficult as it has been in this instance.

Mr. Kelley. That is if you took care of it as it came in?

Admiral Potter. Yes, sir; but such information would, of course. be restricted to the data which had been received. The fact that the activities of the Navy are scattered throughout the world makes it impossible to get returns for any given periods at regular intervals, consequently data for a full quarter would be delayed in the preparation until the receipt of all of the reports of expenditures relating to The length of time required for the receipt of this data that quarter. can only be indefinite.

Mr. Kelley. If you had that in mind from day to day, at the end of each quarter you could prepare a statement which would reflect

pretty accurately the expense of the previous quarter, at least, and you would not be over three months behind on actual expenditures?

Admiral POTTER. Mr. Reed reminds me that it would also be necessary to have an additional clerical force to do that, unless we worked

day and night, as we did this time.

Mr. KELLEY. I appreciate your very fine work in getting up these As it is now, the Secretary of the Navy does not know, tables for me. until some three months after the end of the fiscal year, just what any particular vessel has cost the previous year.

Admiral POTTER. That is correct, sir. Col. ROOSEVELT. Unless he has inquired.

Mr. Kelley. Unless he has specifically inquired about it?

Admiral Potter. Yes.

Mr. Kelley. Now, a word about the relative costs of last year, 1921, as compared with 1916. In operating the fleet what are the chief items of expense?

Admiral Potter. Of course, we may say at once fuel, which I

regard as the chief item.

Mr. Kelley. It is getting to be.

Admiral POTTER. But not actually in money value. Of course, the largest value in money is pay of the Navy, enlisted men and officers, that is, the compensation of the personnel.

Mr. Kelley. That would probably be the chief item, would it

not?

Admiral POTTER. It is so far as money value goes by far and away the chief item. Then come provisions, then the fuel, then miscellaneous expenses, which indicate charges on such appropriations as construction and repair and engineering for the maintenance of the ships, as well as miscellaneous equippage.

Mr. Kelley. Take as an illustration the total expense of the maintenance and operation of one of the active ships, the Wyoming, or let us go down a little further and get a newer one, the Pennsylvania.

The total expense for 1921 was \$2,728,605.81.

Admiral POTTER. Yes, sir; in full commission for 12 months. Mr. Kelley. Of that amount, \$1,352,640.32 was for pay? Admiral Potter. Yes, sir.

Mr. Kelley. That would be about half of it, would it not?

Admiral POTTER. Yes; that is right, and a trifle under.

Mr. Kelley. And the other expenses would be divided among equipage, repairs, stores and food?

Admiral POTTER. Yes, sir; in the issues of stores we have here

included the food.

INCREASED PAY OF THE NAVY, 1920.

Mr. Kelley. My recollection is that we increased the pay of the Navy in 1920.

Admiral POTTER. May 18, 1920.

Mr. Kelley. About what percentage did we increase the officers'

Admiral POTTER. The officers' pay was increased between 20 and 22 per cent, according to the grade.

Mr. KELLEY. Per cent?

Admiral Potter. Yes, sir; the enlisted men were increased on a

average of 30 per cent.

Mr. Kelley. So if the personnel remained the same in 1916 ar in 1921 the increased cost, due to the increased pay, would be som thing like 22 per cent for the officers and 30 per cent for the men?

Admiral Potter. Nearer 45 per cent for the men over the 191

rate.

Mr. REED. I want to make clear that matter. The 30 per cer increase for the enlisted personnel was over the temporary increase authorized by the act of May 22, 1917, and I should say that the increase over the 1916 figures was between 45 and 50 per cent.

Mr. Kelley. In 1916 we increased the pay of those going in for th

first time but did we raise the whole scale?

Mr. Reed. The act of May 22, 1917, provided an increase varyin

from \$6 to \$15 per month all along the line.

Mr. Kelley. And then this increase made in 1920 was over thos figures?

Mr. REED. Yes.

Mr. Kelley. So if we are to make a fair comparison between 191 and 1921, what the admiral says about the officers would be correct but as to the men it should be something like 40 to 50 per cent?

Mr. Reed. Yes, sir; around 45 per cent.

Mr. Kelley. Do you know about what proportion of the expens

of the personnel on a ship is pay of the officers?

Admiral Porrer. Not as you phrase it; but I should say that th pay of the officers is about 23 per cent of the whole pay of the Navy Mr. Kelley. And would that hold true as to any particular estab lishment like a ship?

Admiral POTTER. I would like to verify that.

Mr. REED. I think we can give you definite figures on that and would rather do it than hazard a guess.

Mr. Kelley. You may work that out and make the correction

Mr. Reed. Yes, sir.

U. S. S. "Texas," first quarter, 1922.

Officers' pay	202, 047. 3
Percentage of officers' pay to total pay on battleship	2

Mr. Kelley. Now, as to the pay of the men and officers on th battleship Pennsylvania, as I say, it was \$1,352,640.32 in 1921. imagine I must have taken an unfortunate ship, because she was no in commission very long in 1916.

Mr. REED. No; only for about a month.

Mr. Kelley. So let us take the Nevada. Would that ship fur

nish a fair comparison?

Mr. Reed. The Nevada was only in commission four months, sir and you would have to go up and take either the Texas or New York

Mr. Kelley. Let us take the Texas.

Mr. OLIVER. I would suggest that you take the several types of

ships—take destroyers, take battleships, and submarines.

Mr. Kelley. That is what I am going to do; I am going down through the line. Take the *Texas*. The pay of the men wa

\$1,064,803.04 in 1921 and in 1916 \$535,538.69. On the basis of the increase and taking an increase of only 40 per cent, how do you explain the increase of practically 100 per cent in the pay of the men ?

Admiral POTTER. There is undoubtedly a great increase in the personnel and the complement of the ship; just what that is I do not In 1916 I do not know what the complement was.

Mr. Kelley. It would not be due to the increase in pay?

Admiral POTTER. It would be only partly due to the increase in

Mr. Kelley. I mean, the whole amount would not be due to that?

Admiral POTTER. No. Col. ROOSEVELT. It is due to the increase in complement. I can not give you the figures from memory, but I could give them to you approximately. Let us say the Texas had a complement at that time of 900; if she had that complement at that time she would have about 1,100 now, or some two hundred and odd more.

Mr. Kelley. Then, if that is the reason for it we had better get

the exact figures from Admiral Coontz.

Col. ROOSEVELT. Yes. As I say, I can not give it to you exactly now, but I can give it to you roughly. Certain entirely new inventions have come into vogue since 1916 which necessitated extra personnel. For example, our fire-control system is entirely new, and all of the men attached to that come under the head of extra personnel; the submarine menaces developed in the last war necessitated a different arrangement of the complement on account of the antisubmarine work; that is another item which has to be added to the situation; our radio work on board ship has increased from practically nil to a very large extent; that is another item that has to be added, and there is a sum total of addition in personnel required in the naval development of the battleship.

Mr. Kelley. Do you not regard that as a pretty excessive increase,

100 per cent, in the pay of the men and officers on a ship over 1916? Col. ROOSEVELT. But, you see, you have got to figure, first of all, that you have an increase in pay as indicated by Admiral Potter's statement, and that the proportion of men to officers is lower than the 26 per cent that has been given.

Mr. Davis. Would it not be well for the ordinary man, and would he not understand it better, if a record were put in showing the pay of the common seamen and the pay of the other men from that up

during the year 1916?

Mr. Kelley. The pay table in the Navy is a rather complicated

Mr. Davis. I mean, put it in dollars and cents instead of percentages Mr. Kelley. Have you the complement for 1916, Admiral Potter? Admiral POTTER. Nine hundred and fifty-seven was her authorized complement in 1916, and in 1921 the authorized complement 1,309.

Col. ROOSEVELT. Authorized; but that does not mean that that

complement was on board.

Admiral POTTER. No, sir; it does not.

Mr. Kelley. The ships' data for 1921 gives the number on board the Nevada as 1,188.

Col. ROOSEVELT. I was pretty close, you see; I said 1,100.

Mr. Oliver. Col. Roosevelt has indicated in a specific way to what he attributes the increase, and I would like to ask that in revising his answer he insert the number assigned to these various services. which he thinks now carry an additional number of enlisted men and

giving the number now carried.

Col. ROOSEVELT. I will be very glad to do that. As a matter of fact, I have that information at the office, but I did not realize that particular point would be raised this morning. I have in my office just exactly the answer to Mr. Oliver's query. I have the number of personnel on a ship in 1916, the number of personnel on board now, and a tabulation of the various new inventions and the modifications of the naval organization which have caused the increase, with the number of men totaled alongside of each.

Mr. French. You are now referring to those actually on the ship

and not to those that would be authorized?

Col. ROOSEVELT. Actually on the ship; yes. No. ship, you know, is manned up to what we call its war strength, and my answer will simply indicate the new inventions; after each invention the number of men which that invention requires to operate it, and the sum total of those men will indicate the differential in strength between 1916 and the present time.

Mr. OLIVER. And you will take as your basis for determining that not the recommendations of the General Board for the authorized complement but the actual number of men carried on the ship?

Col. ROOSEVELT. I will be dealing entirely with what is actually on the ship and not with what is strategically considered advisable

on the ship.

Mr. Kelley. Of course, that will include the actual improvements or changes that were made in the fire control, and things of that kind, since 1916?

Col. ROOSEVELT. Yes.

Mr. Kelley. Of course, that was during the period of the war,

when we were not revising the battleships very much.

Col. ROOSEVELT. I will go into that, but I do not think, Mr. Chairman, that I had better go into that in too much detail. I would be lost and get way beyond myself if I attempted to go into fire-control in detail.

Mr. Kelley. The number on the Nevada, as given by Admiral

Washington, in April, 1921, was 1,292.

Mr. French. Does the year 1916 represent a fair year? Although not in the war, we were approaching a war strength to some extent, 20 per cent or 30 per cent, just for the sake of playing safe in view of war conditions.

Col. Roosevelt. I would have said no; I would have said that 1916 did not represent a fair year, but that is a particular point I have not investigated myself. However, I have asked, "Is that a good average?" and I have been told yes.

DETAILED COST OF BATTLESHIP FLEET FISCAL YEARS 1916 AND 1921 AND FIRST QUARTER FISCAL YEAR 1922.

Mr. Kelley. I wish you would put in the record at this point the page of your report for 1921 which gives the detailed cost of the battleship fleet.

Admiral POTTER. Yes, sir.

Mr. Kelley. Also right below it a similar report from your report of 1916 giving the cost of the battleship fleet in that year.

Admiral POTTER. Yes, sir.

Mr. Kelley. So that the committee will have these two tables, one below the other.
Admiral POTTER. Yes, sir.

Mr. Kelley. I think it will be well to have you give both the first and second lines separately, because some of the second line ships in 1921 were first line ships in 1916.

Admiral Potter. Very well. Would you care to have added to that the first quarter of 1922?

Mr. Kelley. I will ask you to put that in just a little bit later.

Admiral Potter. Very well.

Admiral POTTER. Very well.

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\$172.024.90 \$170.027.00 \$170.027.00 \$255, 166.58 \$1, 296.57 \$1, 178.62 \$255, 166.58 \$1, 296.57 \$1, 178.62 \$255, 166.58 \$1, 296.57 \$1	### ### ### ### #### #### ############	alterations to ships, includ- ing equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
\$17, 024, 90 \$6,613, RZ \$177, 228, G \$225, RR, RT \$1,788, PZ \$1,788, PZ \$17, RR, RZ \$17, RZ \$18, RZ, RZ \$17, RZ \$11, RZ <td>817, 024, 39 241, 067, 00 241, 266, 30 255, 166, 39 255, 166, 39 255, 166, 39 255, 167, 30 25</td> <td></td> <td></td> <td></td> <td></td> <td></td>	817, 024, 39 241, 067, 00 241, 266, 30 255, 166, 39 255, 166, 39 255, 166, 39 255, 167, 30 25					
	186, 864, 88 4, 888, 63 196, 967, 39 240, 736, 38 4, 588, 63 144, 586, 64 248, 445, 30 6, 198, 17 104, 081, 46 292, 580, 56 6, 138, 78 168, 380, 25 191, 884, 63 2, 384, 03 87, 163, 10 86, 87 213, 370, 65 4, 365, 86 97, 887, 16	# 676.38 # 5.75.28 #	225, 885, 47 386, 517, 30 386, 517, 30 386, 517, 30 386, 517, 30 385, 323, 324, 53 385, 327, 15 386, 81, 720, 24 387, 527, 15 388, 81, 720, 24 387, 578, 58 387, 578, 58 387, 588, 16 573, 588, 16 573, 588, 16 573, 588, 16 573, 588, 16 573, 588, 16 573, 588, 16 574, 588, 16 576, 588, 18 576, 588, 18 577,			

1 All battleships, first line, in full commission 92 days unless otherwise shown. 9 Credit.

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		Title C.							Months in commis- sion.	commis n.
Name of vessel.	Acerued pay.	Public vouchers (Including commuted rations).	Stores issued (including pro- visions and medical stores).	Total operating expenses.	Repairs and alterations to ships, includ- ing equipage.	Total main- tenance and operation.	Tonnage	Date of first commission.	Full com- mission.	Commis- sion in reserve.
BATTLESHIPS—SECOND LINE. Indiana. Massachusetts.			1 1		\$12,285,44 11,000,36	\$12, 285, 44 11, 000, 36	10,288	Nov. 20, 1895 June 10, 1896		
Owa	\$180, 111.	\$5,099.92	\$84, 392, 73	\$209, 604.	24, 049, 54	274, 408, 16	11, 346	July 15, 1896 June 16, 1897	7	
Kearsarge			90, 346, 02	325, 202.	24, 006, 55	349, 208, 90	11, 520	Feb. 20, 1900	6	
Thinois.	84, 768, 60		36, 875, 66	341, 451.	8, 952, 45	350, 408, 72	11, 520	May 15, 1900 Sept. 16, 1901	12	
Ајаратта	165, 957, 28		50, 288, 77	217, 733.	13, 334, 50	231, 067, 51	11, 552	Oct. 16, 1900	1	
Wisconsin	135, 015, 89		61, 800, 83	198, 275,	26, 688, 47	224, 963, 76	12,500	Feb. 4, 1901 Dec. 29, 1902	9	
Missouri			111, 633, 68	323, 103.	43, 835, 63	366, 938, 66	12, 500	Dec. 1, 1903	20.	
Virginia			214 967 79	631 041	78,630,60	700, 680, 65	12,500	May 7 1904	40	
Nebraska			201,029,77	627, 582	83,804,69	711, 387. 51	14,948	July 1, 1907	11	
Georgia			122, 631, 62	454, 213,	71, 773.81	525, 986, 90	14,948	Sept. 24, 1906		
New Jersey			208, 933, 04	628 466	130, 666, 91	759 183 75	14,948	Feb. 19 1906	==	
Connecticut			122, 312, 86	468, 295.	138, 638, 67	606, 934. 02	16,000	Sept. 29, 1906	п	
onisiana	480, 534, 76		274, 452, 86	764, 053.	102, 473, 20	866, 526, 55	16,000	June 2, 1906	11	
Kansas	350, 741, 46		189, 318, 54	548, 150	100,621,78	648, 780, 85	16,000	Apr. 18 1907	125	
Minnesota	355, 957, 21		142, 314, 69	505,007.	142, 365, 66	647, 373, 24	16,000	Mar. 9, 1907	12	
New Hampshire	377, 207, 88		172, 761, 42	556, 162,	118, 615, 58	674, 778, 37	16,000	Mar. 19, 1908	12	***************************************
South Carolina	423, 049, 70	8, 931, 11	174, 738, 69	606, 719, 50 639, 184, 33	159, 788, 65	798, 972, 98	16,000	Mar. 1, 1910 Jan. 4, 1910	22	
Total	6, 636, 500, 79	155, 318, 94	3, 065, 015, 66	9, 856, 835, 39	1, 634, 791. 57	11, 491, 626. 96				
Equipage						2, 872, 906. 74				
Total						14, 364, 533, 70				

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			Title C.				Repairs and				
	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission	Months in com- mission.
	BATTLESHIPS—SECOND LINE.										
3	diana)						\$45, 484, 52	\$45, 484, 52	10,288	Nov. 20, 1895	
Ö	Coast battleship No. 2 (ex-Mas-			\$639.14	\$639.14	\$108,25	36, 682, 41	15	10, 288	10	
0)тедоп					***************************************	3, 772, 67	72	10, 288	15	-
Q M	Coast battleship No. 4 (ex-lows).	\$13, 769. 23	\$10,49	946.85	14, 726, 57	3 146 76	118, 547, 73	133, 274, 30	11,346	June 16, 1897	_
	Ilinois			204.27	204.27	3,960.37	9,625.39	79	11,552	16,	
4	Маратта			204.27	204, 27	72, 28	11,648,32	2	11,552	16,	
=;	Visconsin	*************	564.80	10, 284, 75	10, 849, 55		11, 891, 70	4	11,552	4	
22	(liseanti			12,804.00	12,854.00	1 040 00	21,064,49	101	12,500	3	_
10	Ohio	340, 398, 98	15.887.	186, 287, 96	542, 574, 89	40, 677, 66	61,306,68	9	12,500	4	12
>	Virginia	28, 085, 72	1,712.79	48, 756, 42	78, 554, 93	42, 070, 60	64, 446, 11	E	14,948	7	_
Z	Vebraska	:00	00 000	4, 236, 24	4, 236, 24	1, 272, 03	20, 736, 61	24.0	14,948	ď;	
Z	New Jersey	26, 423, 01	1,320.97	32, 458, 85	60, 202, 83	7,807.67	50, 244, 19	828	14,948	\$2	
K	Shode Island	4		32, 334, 89	32, 488, 19	4,046.43	28, 236, 50	E	14, 948	19	-
0	Connecticut	672, 604, 29	200	335, 560, 82	931, 956, 44	9 160 66	256, 634, 94	40	98	Si.	
1>	ermont		5	1,730.77	1, 720, 77	907.48	25, 413, 79	12	16,000	14	
X		70	33, 708, 46	396, 782, 00	1,096,194.68	56, 142, 95	93, 160, 44	861	16,000	20	
ZZ	New Hampshire	551, 670.30	23, 319, 49	342, 121, 39	1, 109, 570, 57	64, 200. 90	73, 845, 00	575	16,000	3,0	8 11
	Total	2,943,657.34	129, 776. 46	1, 865, 467. 53	4, 928, 901. 33	394, 667. 69	1, 149, 562, 09	6, 473, 131, 11			

,			Title C.							Status.1	
									-		
o Z	Name of vessel.	Accrued pay.	Miscellaneous expense, including commuted rations.	Stores issued, including provisions.	Total operat- ing expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	operating with reduced complements in reserve or ordinary.	Days out of com- mission.
	BATTLESHIPS—SECOND LINE.										
300							Ş	Ş		•	
3002	<u>ರ</u>						121.12	121.12			
3008		<u> </u>					25	200			
	Coast Battleship No. 4 (ex.	10, 565. 90	5.70		10, 571. 60	71 77	10, 405, 60	14,968.72			
8						136.97	2,919.21	3,066.18			
8	Wisconsin					245.83	188 818 818	165.61			
38	Missouri					145.00	1,061.70	1,206.70			
300				45, 682, 33	127, 619. 09	16, 339, 78	3,616.02	147, 574. 80	8	:	
301							1,087.54	1,087.54			
	Georgia. New Jersey						85.14 85.14	2. 25. 25. 25. 25. 25. 25. 25. 25. 25. 2			
30.7	Rhode Island.						48.92	448.92			
3018	Connecticut	191, 834, 72	5,266.79	71,234.41	268, 334, 92	2, \$5.29 \$1.80	25, 520, 52 25, 709, 61	250,640,88	83		
88	Vermont					215.73	343.24	568.97			
		184, 160.94	4,	94, 702, 68	253, 670, 14	1 331 20	4,4 8,8 5,8	28,62	88		
ğ		<u>:</u>	650.36		650.36	392.07	2,353.83	3,396.26			
	Total	656, 500. 34	10, 728. 37	277, 964. 98	954, 193. 69	21,747.83	46,711.11	1, 013, 652, 63			

1 All bettleships, second line, out of commission 92 days unless otherwise shown.
2 Credit.

Mr. Kelley. Mr. Oliver, have you any questions to ask relative to the situation between 1916 and 1921 before we take up the fin quarter of this year?
Mr. OLIVER. No; I think you have exhausted that.

Mr. Kelley. Now, Admiral, you have prepared for the commit tee—and we are very much indebted to you for it and to the Nay Department—a table showing similar items of expense for the ship of the Navy during the first quarter of 1922.

Col. ROOSEVELT. Might I add that perhaps that is not a fair com parison for the Navy in so far as the second and third quarters go on account of certain expenses that arise in the first quarter, which I would be delighted to explain to the committee if they so desire.

Mr. Kelley. When we develop this we will see what we have an then hear your statement. I think it would be well to have you pu in at this point a table for the battleships of the first and second line

Mr. REED. Right with the other two? Mr. Kelley. Yes. Mr. Reed. We will do that.

BATTLESHIPS OF THE FIRST LINE-MAINTENANCE AND OPERATIO COST, FIRST QUARTER, 1922.

Mr. Kelley. What do you get as the total battleship maintenant and operation cost for the first quarter?

Admiral POTTER. For the first line?

Mr. Kelley. Yes.

Admiral Potter. \$9,757,234.69.

Mr. Kelley. Assuming that to be a fair quarter of the year—ar then we will consider later on whether or not it is a fair quarterwhat would that make the battleship fleet cost, the active line, for the year?

Admiral Potter. For the year it would be about \$38,000,000 a

\$39,000,000; four times that.

Mr. Kelley. In round numbers, \$39,000,000?

Admiral Potter. Yes, sir.

Mr. Kelley. What was the total in 1921 for these same ships? Admiral Potter. In 1921, \$45,290,138.19.

Mr. Kelley. So the cost of operation of these ships this year he

been reduced by approximately \$6,000,000? Admiral POTTER. Yes, sir.

Mr. REED. On the basis of the first quarter's figures, but there is question that would have to be developed as to what ships had bee able, for instance, to get in their overhaul periods and repair wor. As to the battleship class there was quite an amount for repairs.

Admiral Potter. You mean as to the justice of the comparison Mr. REED. Yes; as to whether a proportionate part of them he

gotten in their overhaul period at the navy yards.

Mr. Kelley. Taking any one ship, of course, it would depend alt gether on whether it had gone to a yard to be repaired?

Admiral Potter. Yes, sir.

Mr. Kelley. But if we take the list as a whole, would it be fair

period?

Mr. REED. As to the battleship fleet I am not prepared to sa but my recollection is that the three summer months are their acti-

cruising period; that is, they do some overhauling in the fourth quarter getting ready for the cruise, and there is a relatively smaller number at the yards during July, August, and September than during any other months of the year. However, Admiral Coontz would have to develop that.

Col. ROOSEVELT. That is substantially true; they are more apt to

overhaul in June, after coming back from their winter cruise.

Mr. Kelley. You spent \$500,420.24 on the Texas?

Admiral POTTER. Yes, sir; \$100,795.63 for alterations and repairs for the first quarter.

Mr. Kelley. And \$80,035 on the Wyoming?

Admiral POTTER. Yes, sir; and on the Idaho \$138,392.03 for repairs and alterations.

Mr. Kelley. Undoubtedly each ship has spent her full amount?

Admiral POTTER. Yes, sir.

Mr. French. Is that for 1922?

Admiral POTTER. Yes, sir; July, August, and September.

Col. ROOSEVELT. There was something to do with the ranges on the Idaho; I can not tell you.

Mr. Kelley. \$96,000 and upward on the Mississippi?

Admiral Porter. Yes, sir; \$96,953 on the Mississippi, and on the

New Mexico \$91,389.

Mr. Kelley. It has been my understanding always that the Navy Department attempts to apportion this along evenly during the year in order that the navy yard employees shall not have an excess of work at one time and a shortage of work at another. That is the Policy that is being pursued?

Admiral POTTER. So far as I understand.

Mr. Kelley. If it were pursued the repair item would be fairly unform during the year?

Admiral POTTER. With the exception of the third quarter.

Mr. Kelley. You would not have the navy yards idle during the

third quarter?

Admiral POTTER. No, sir. The fleet takes its biggest cruise in January, February, March, and part of April, and that quarter would likely run smaller than the other three quarters. The first quarter they have the in and out cruises, but the third quarter, January, **February**, and March, and extending into April, is a cruise of several housand miles.

Col. ROOSEVELT. The two most uneven quarters are the third and fourth; the fourth would show more and the third less. ther two quarters, the first and second, I believe, will come more

losely to the average quarter.

Mr. Kelley. What was the repair bill on the Texas in 1916? Admiral POTTER. For repairs and alterations, \$125,330.34.

Mr. Kelley. That was for the entire year?

Admiral POTTER. For 12 months in full commission.

Mr. Kelley. The chances are that the repairs on the Texas for the rest of the year you would not have?

Admiral POTTER. Not here.

Mr. REED. The repairs at that time ought to have been apparently retty low, because she had only been in commission two years or She was put in commission in the late spring of 1914.

Admiral Potter. Do you wish that compared with 1922 or 1921 Mr. Kelley. What was it in 1921?

Admiral POTTER. \$716,000.98.

Mr. Kelley. And for repairs for this quarter?

Admiral POTTER. \$100,795.

Mr. OLIVER. Will an examination by the past quarters be able to give us a representative average in type of ship, to which you can give answers to questions propounded?

Admiral Potter. I think the one he has taken is a thorough representative type. It has not been long enough in commission to have

had time to deteriorate much on account of age.

Mr. Kelley. How could you spend \$700,000, under the law, for repairs to a ship in one year?

Admiral Potter. Authority must have been given by the Navy

Department for such expenditures.

Mr. Reed. The limit was lifted until the 30th of June, 1920.

Mr. OLIVER. That answer rather suggests the inaccuracy of the information which we have had that it is always cheaper to keep a ship in active commission.

Mr. Kelley. I was under the impression that there was a legal

limit to the repairs.

Mr. Reed. The limit was \$300,000. That was suspended during the period of the war.

Mr. Kelley. There was no limit during that period?

Mr. REED. No, sir—up to June 30, 1920.

Mr. Kelley. That limit is again in operation?

Mr. REED. Yes, sir.

Mr. Kelley. The largest amount which you can spend on one of the ships during the coming year is \$300,000, although you spent \$700,000 on this particular ship last year?

Mr. REED. Yes, sir.

COST OF RATIONS 1916-1921.

Mr. Kelley. What was the average ration in 1916?

Admiral Potter. The average ration in 1916 was \$0.3714—nearly 38 cents.

Mr. Kelley. Let us call it 38 cents in round numbers.

Admiral Potter. Yes, sir.

Mr. Kelley. What was the average in 1921?

Admiral Potter. The average in 1921 was \$0.6846—say 68½ cents.

Mr. Kelley. And for the first three months of 1922?

Admiral Potter. \$0.6423.

Mr. Kelley. What is the cost right now—the last purchases?

Admiral Potter. \$0.5656—almost 57 cents.

Mr. Kelley. That is the average on all the ships?

Admiral Potter. That is the average on all the ships. This time we took the actual number of rations, not only by types of ships, but the actual number of rations, and worked them out.

Mr. Kelley. The average is increased in proportion as the ships

are scattered and have no purchasing officers aboard?

Admiral Potter. Yes, sir.

Mr. Kelley. Do you know what the cost of the ration is on any particular type of ship?

Admiral POTTER. Yes, sir; the torpedo-boat destroyers, those without supply officers, are running—at present, you mean?
Mr. Kelley. Yes, sir.

Admiral Potter. Those without supply officers, roughly speaking, are the destroyers and similar vessels, and they are running \$0.6977practically 70 cents.

Mr. Kelley. Those are the destroyers?

Admiral POTTER. Yes, sir; and similar vessels almost 70 cents. Vessels on which there are supply officers for the same period are running \$0.4940, practically 49½ cents. Of course, it is possible to live more cheaply upon large vessels than small ones; where you have 1,400 men you can live at a cheaper rate than where you have only 115 men.

Mr. Kelley. The item of "stores issued" includes more than food? Mr. REED. That actually includes all supplies—fuel, lubricating oil, miscellaneous cleaning gear, and engine-room supplies—as well

as provisions and medical stores.

Mr. Kelley. Please put in the record at this point a percentage table, taking the Texas as a model, showing the various percentages that make up the 100 per cent expense of operating that ship for pay, food, fuel, repairs, and other items, miscellaneous.

Admiral POTTER. Yes, sir.

Mr. Kelley. So that we can differentiate those and see how the new prices will compare for the similar expenditures during the coming year.

U. S. S. "Texas," maintenance and operation, fiscal year 1921.

	Amount.	Per cent of total.
Pay Provisions	\$1,064,803.04 250,468.83	39
Fuel Ther stores issued	245, 941. 06 271, 192. 54	10
Gecella neous expenses. Equipage Lepairs and alterations to ship, including equipage		2 5 26
Total		100

Mr. REED. Those percentage items vary with every ship.

Mr. Kelley. But you can tell pretty well.

What officer should we interrogate relative to ships put in commission in 1916 of any particular class; perhaps, Admiral Washing-

Admiral POTTER. Admiral Coontz.

ARMORED CRUISERS.

Mr. Kelley. Taking up the armored cruisers, I see here the armored cruiser Frederick-

Admiral Potter (interposing). That was the armored cruiser

Maryland.

Mr. Kelley. She is in commission?

Admiral POTTER. Yes, sir; but she was not in 1916.

Mr. REED. The Pittsburgh is the only one that carries through.

Mr. Kelley. These old ships have been resurrected since 1916.

Col. ROOSEVELT. Most of them are out of commission now. one in commission is the Rochester.

Mr. Kelley. The armored cruisers, practically all of them you sage.

were out of commission in 1916?

Admiral Potter. The Montana and North Carolina were in ful commission, but they are not now. It is very difficult to get a comparison. They were the only two in full commission in 1916, and neither of them is now.

Mr. Kelley. Suppose we take one of the ships that was in commission in 1916 and compare that with one that was in commission

in 1921, which would be fairly comparable?

Admiral Potter. Take the Montana or North Carolina in 1916.

Mr. Kelley. Very well.

Mr. Reed. The Pittsburgh is the only one in commission during the

Admiral Potter. She was not in commission in 1916. You will have to compare one ship with a similar ship. Take the North Carolina.

Mr. Kelley. What did she cost for operation and maintenance in

Admiral POTTER. The total maintenance and operation was **\$**433,026.66.

Mr. Kelley. What ship was in commission which would be fairly

comparable with the North Carolinu, the Frederick?

Admiral POTTER. The Frederick is the same type. She was in commission 92 days. Take the Frederick for 1921, the total maintenance and operation was \$1,213,957.60.

Mr. Kelley. Is that about three times the 1916 ship?

Mr. Reed. Yes, sir; about three times.

Admiral Potter. That was a different vessel. We can give you the Frederick's figures for the first quarter.

Mr. Kelley. The Ferderick now was the Maryland taken over?

Admiral Potter. Yes, sir. She was only in commission 19 days in 1916, commission and reserve, not in active commission. That is a type of vessel that is very difficult to get any comparison with because it has been changed since.

Mr. Kelley. The Pittsburgh—how long was she in commission in

1916?

Admiral Potter. Five months.

Mr. Kelley. A little less than half a year?

Admiral Potter. Yes, sir; she was only in reserve.

Mr. Kelley. Not in full commission?

Admiral Potter. No, sir.

Mr. Kelley. What was the cost of the Pittsburgh last year—1921

Admiral POTTER. \$1,777,931.02.

Mr. Kelley. What has been the cost of the Pittsburgh for the first three months of this year?

Admiral POTTER. \$229,454.53.

Mr. Kelley. If that holds for the year, it will be about \$1,000,000 ! Admiral Potter. Yes, sir.

Mr. OLIVER. Will the table show the complement of that ship?

Admiral Potter. Yes, sir; we can get it for 1921.

Col. ROOSEVELT. The Pittsburgh is out of commission now. She at the Philadelphia Navy Yard and out of commission. She is the Huron. We put her out of commission in November or Decemрөг.

Mr. Kelley. Have you the South Dakota for 1916? Admiral POTTER. Yes, sir.

Mr. Kelley. Was that ship in full commission all the time in 1916 ?

Mr. REED. She was in commission and reserve the full year.

Mr. Kelley. Is she in full commission now? Col. ROOSEVELT. She is in full commission.

Mr. Kelley. She was in reserve commission in 1916? Admiral Potter. Yes, sir.

Mr. Kelley. What was the expense that year?

Admiral POTTER. \$321,639.43.

Mr. Kelley. What was the cost to operate her last year, 1921! Admiral Potter. \$947,231.57.

Mr. KELLEY. Have you the date when that ship was built?

Admiral Porter. No, sir. I have the first commission, January **27, 1908.**

Mr. Kelley. Will you insert in the record at this point the table for 1916 and 1921 and for the first quarter for armored cruisers? Admiral POTTER. Yes, sir.

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Commis sion in reserve.		
Full commission.	6 55 6 6	
Date of first commission.	Jan. 19,1905 Apr. 18,1905 July 17,1905 May 7,1908 May 7,1908 Aug. 1,1907 Jan. 27,1908 Feb. 23,1906	
Tonnage.	22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	
Total main- tenance and operation.	\$221, 201. 07 5.88, 195. 96 5.89, 119. 05 5.89, 5.11. 96 22.7, 329. 58 763, 333. 94 763, 333. 94 625, 694, 24 411, 554, 24	1, 282, 570. 02
alterations to ships, includ- ing equipage.	\$121, 942, 45 59, 715, 01 11, 5078, 29 71, 5078, 29 71, 5078, 20 71, 5078, 20 80, 642, 54 36, 643, 64 46, 837, 75 124, 837, 75 124, 837, 75 808, 186, 80	
Fotal operating expenses.	\$396, 258, 62 528, 450, 97 559, 740, 72 458, 774, 73 458, 774, 73 307, 304, 99 727, 304, 99 727, 304, 99 727, 304, 99 727, 304, 99 500, 501, 73 4, 772, 003, 29	
Stores issued (including pro- visions and medical stores).	\$134, 312, 44 221, 789, 44 221, 789, 44 221, 789, 63, 60 142, 632, 20 8, 63, 632, 20 8, 772, 016, 89 772, 016, 87 114, 016, 02 71, 840, 03	
Public vouchers (including commuted rations).	55, 470.08 5, 618.33 5, 618.33 5, 618.33 5, 618.33 5, 618.33 5, 618.33 5, 733.34 7, 733.34 7, 773.33 7, 773.33 8, 797.80	
Accrued pay.	\$289, 476. 10 300, 126, 29 300, 126, 29 312, 551, 34 120, 632, 564, 17 120, 632, 56 447, 152, 70 131, 538, 32 2, 621, 336, 94	
Name of vessel.	ARMORED CRUISERS. Colorado. Maryland Memphis. Montana. North Carolina. Pittsburgh Salan Diego. South Dakota. Weshington. Total	EquipageGrand total
	Public vouchers Stores issued (including visions and restores). Public vouchers Stores issued (including procommuted visions and rations). Total operating alterations to the area of the commission operation. Total operating alterations of the commission. Total operation operation Total operation operation Total opera	Name of vessel. Public vouchers Stores issued rations to commuted rations Total operating alterations to commission. Total operating alterations Stores issued rations Total operation Total opera

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}	Months In com- mission .	dar r dar	
	Date of first commission.	13,680 Apr. 18,1805 18,680 Feb. 23,1805 18,580 July 77,1808 14,580 July 17,1808 13,680 May 9,1806 13,680 May 9,1806 13,680 Aug. 19,1805 14,680 Aug. 17,1906	
	Ton- nage.	8,8,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	
	Total maintenance and opera- tion.	81, 313, 967, 60 127, 121, 44 266, 126, 37 947, 270, 15 256, 268, 47 1, 777, 831, 02 764, 645, 65 1, 773, 831, 03 365, 461, 06 5, 713, 338, 62	
Reneirs and	alterations to ships, including equipage.	\$237, 953. 24 46, 175. 14 46, 175. 14 16, 013. 26 26, 672. 27 26, 477. 79 277. 39 79, 188. 16 619, 430. 13	
	Equipage.	889 246.15 27,965.10 6,106.30 5,642.00 13,564.20 13,577.20 63,577.40 618.00	
	Total operating expenses.	\$886, 778. 19 53, 981. 20 53, 981. 20 54, 006. 81 864, 57. 56 18, 871. 20 1, 684, 876. 81 1, 684, 876. 81 1, 684, 876. 81 1, 684, 84 4, 261, 960. 58	
	Stores issued, including pro- visions and medical stores.	\$55,005.33 24,734.00 79,537.13 141,875.06 61,1984.62 15,307.08 1,307.08 1,337.07.04	
Title C.	Miscellaneous sexpense, in- cluding commuted rations.	832, 968. 31 1, 298. 49 7, 164. 15 72, 066. 93 6, 562. 70 8, 564. 49 1,773. 57 1,773. 57 1,773. 57 1,773. 57 1,773. 57 1,773. 57 1,773. 57	
	Accrused pay.	\$464, 733. 55 27, 948. 71 156, 326. 53 650, 567. 68 1, 078, 336. 76 10, 50, 567. 54 176, 60 2, 751, 802. 87	
	Name of vessel.	ARMORED CRUISERS. Frederick Huntington Charlotte (ex. North Carolins). Huron (ex. South Dakots). Memphis. Missould (ex. Montens). Pittsburgh. Pueblo. San Diego. Seattle. Total.	
ó X		2469 2469 2469 2469 2469 2469	

	Days out of com- mission.					
Status.1	vith reduced complements in eserve or redinary.					
	Days in full commission.					
	Total main- tenance and operation.				229, 454, 53 5, 664, 80 4, 664, 66	763, 562. 93
	Repairs and alterations to ships, including equipage.		\$1,628,71 2,200,32	25.4, 28.55.55 24.85.55	5,449.66 4,654.66	24, 508. 17
	Едшрьее.		\$15,940.30	8, 642, 15	1,025.38	26, 106. 40
	Total operating expenses.		\$181,959.15	302, 399. 54	228, 439. 53 140. 14	712, 938. 36
	Stores issued including provisions.		\$52, 646. 02	91, 305. 03	53, 836, 73	197, 927. 92
Title C.	Miscellaneous expense, in- cluding com- muted rations.		\$128 , 870. 50 \$442. 63 \$52, 646. 02 \$ 181, 959. 15	46.18	1, 208, 48	1,667.20
	Accrued pay.		\$128, 870. 50	211,048.33	173, 394, 32 1, 208, 48	513, 313. 15
	Name of vessel.		Frederick. Huntington	Charlotte (ex North Carolina) Huron (ex South Dakota)	Pittsburgh 1,284.65 1,286.46 53,886.73 228,436.53 1,025.38 Pueblo 8estile.	Total
	, o				1251	

1 All cruisers in full commission for 92 days except as shown otherwise.

Mr. OLIVER. I think wherever the chairman has asked with reference to any particular vessel that you should gave a comparative statement showing the complement carried by the vessel.

Col. Roosevelt. I should think that would be very helpful.

Mr. REED. You want the authorized or the actual complement in 1916 and 1921 and the first three months?

Mr. OLIVER. The actual complement.
Mr. Kelley. That is not to include the marines.

Mr. REED. The commissioned personnel and the enlisted personnel ? (The complements will be shown in the tables to be submitted by Admiral Coontz.)

Mr. Kelley. Yes, sir; exclusive of the marines. In the list of cruisers of the first class, the Brooklyn, I imagine was in commission in 1916 for 12 months?

Admiral POTTER. Yes, sir; that is correct, but only eight months

Mr. Kelley. What did the Brooklyn expend in 1916?

Admiral POTTER. The total maintenance and repair amounted to **\$632,651.08.**

Mr. Kelley. And for the eight months in 1921?

Admairal POTTER. \$790,762.12.

Col. ROOSEVELT. At the rate of \$1,080,000 for the year.

Mr. Kelley. Based on the year?

Col. ROOSEVELT. Yes, sir.

Mr. KELLEY. Take the Charleston—what was that in 1916?

Admiral POTTER. That was in reserve during the whole year 1916, 12 months in reserve.

Mr. Kelley. Was that a situation where they had a 50 per cent complement?

Mr. REED. Even less than that.

Mr. Kelley. How much did you spend on her then?

Admiral POTTER. \$194,846.98.

Mr. Kelley. How much did you spend on her in 1921?

Admiral POTTER. \$1,112,910.64 in full commission.

Mr. Kelley. Was she in full commission for the full time? Admiral POTTER. Yes, sir.

Mr. Kelley. How about the first three months of 1922?

Admiral POTTER. As to the Brooklyn, we sold the Brooklyn. Charleston, \$247,186.43.

Mr. Kelley. If that rate holds good for the year it will cost about much as last year?

Admiral POTTER. \$968,000.

Mr. Kelley. A little less, quite a little bit?

Admiral POTTER. Yes, sir.

Mr. Kelley. We can figure those out as we go along, and the complement?

Admiral POTTER. Yes, sir.

Mr. KELLEY. Take the Saratoga?

Admiral Potter. The Saratoga was in full commission for eight months in 1916 and four months in reserve. There was spent on **ber \$396,821.97.**

Mr. KELLEY. How much for 1921?

Admiral POTTER. She was in full commission, \$1,154,872.29.

Mr. KELLEY. When was this ship put in commission first?

Admiral Potter. August 1, 1893. She was the old New York. Mr. Kelley. What will you spend on her during the first three months?

Admiral POTTER. \$209,501.43. That would amount during the

year to \$836,000, if at the same rate.

Mr. Kelley. What was the amount of the repairs on her in 1921! Admiral Potter. The repairs alone in 1921 were \$83,193.21.

Mr. Kelley. How much have you spent for repairs on her this year during the first three months?

Admiral Potter. \$7,597.01.

Mr. Kelley. You are not spending very much on repairs? Admiral POTTER. No, sir.

CRUISERS-FIRST CLASS.

Mr. Kelley. You will put in the list of cruisers of the first class for the three periods that we are considering?
Admiral POTTER. Yes, sir.

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ommie	Commission in reserve.	3343				Months in com- mission.	821	22	:
Monthe in commis- sion.	Full com-	8				Date of first commission.		May 11, 1906 Aug. 1, 1893 Aug. 18, 1906	
	Date of first commission.	c. 1, 1896 f. 17, 1906 y 11, 1906 g. 1, 1803 g. 18, 1806				Ton- nage. oc	2.00 212.00 200.00	9,8, 9 535,	
	Tonnage.	9,215 Dec. 9,700 Oct. 9,700 May 8,150 Aug. 9,700 Aug.				Total maintenance and opera- tion.	790,752.12	2,632.85 1,154,872.29 896,777.06	3, 967, 944. 96
	Total maintenance and operation.	632, 651. 08 194, 946. 98 305, 196. 34 396, 831. 97 266, 550. 58	1	2,240,068.56	Reneits and	 		88, 193. 21 57, 145. 51	517,727.55
Renairs and	alterations to ships, includ- ing equipage.	75, 725.08 14, 518.51 7, 623.57 19, 863.69 58, 704.04	176, 464. 89			Equipage.	18, 149. 04 52, 638. 75	252, 345. 01 47, 378. 64	373, 428. 42
	Total operat- ing expenses.	556,926.00 180,328.47 294,572.67 376,928.28 206,946.54	1, 615, 601. 96	1921.		Total operating expenses.	<u> </u>	819, 334. 07 792, 252. 90	3,067,788.98
	Stores issued (including pro- visions and medical stores).	183, 978. 56 36, 407. 44 116, 888.02 92, 692. 23 74, 646. 87	527, 598. 12			Stores issued, including pro- visions and medical stores.	105, 166. 43 243, 356. 73	236, 055. 64 222, 062. 87	806,631.67
Title C.	Public vouchers (including commuted rations).	15, 297. 53 3, 108. 24 4, 376. 13 9, 660. 78 6, 042. 32	37, 472.00		Title C.	Miscellaneous expense, in- cluding com- muted rations.		21, 438, 37 36, 365, 42	110, 991. 97
	Accrued pay.	357, 649, 91 117, 815, 79 173, 328, 52 274, 585, 27 127, 157, 35	1, 050, 536. 84			Accrued pay.	551,010.09 503,480.58	561, 840.06 533, 834.61	2, 150, 165. 34
	Name of vessel.	CRUBERS—FRET CLASS. Brooklyn. Charleston. Milwautee. Saratogs. St. Louis.	<u> : </u>	1001		Name of vessel.	CRUISERS—FIRST CLASS. Brooklyn. Charleston.	Milwaukee Rochester (ex-Saratoga) St. Louis	Total
	d Z	122 22 22 12 12 12 12 12 12 12 12 12 12		-		° X	3552	3571 3552 3570	

1922. [First quarter.]

	Days out of com- mission.	8 8			
Status.1	Operating with reduced complements in reserve or ordinary.	8722 22 22 22 247, 106. 43 206, 501. 43 266, 501. 43 264, 57 266, 641. 55			
	Days in full com-				
	Total main- tenance and operation.	\$722.22 247,106.43 209,501.43 154,384.37			
	Repairs and alterations to ships, including equipage.	\$722.22 2,210.44 2,210.44 7,567.01 5,102.10			
	Едшрьке.	\$8, 643. 62 5, 907. 25 9, 467. 53 24, 018. 40			
	Total operating expenses:	\$236, 332. 37 195, 997. 17 169, 824. 74 602, 164. 28			
	Stores issued, including provisions.	\$64, 108. 64 46, 008. 69 36, 385. 16 146, 562. 39			
Title C.	Miscellaneous expense, in- cuding commuted rations.	\$8, 560.25 7, 671.07 3, 403.72 19, 685.04			
	Accrued pay.	\$163, 663.58 142, 267.41 130, 035.86 435, 986.85			
	Name of vessel.	CRUISERS—FIRST CLASS. Brooklyn. Charleston. Milwaukee. Rochester (ex-Sarakoga). St. Louis. Total.			
	No. 3553 3572 35572 35572 35570				

¹ All cruisers—first class—in commission 92 days unless otherwise shown.

CRUISERS-SECOND CLASS.

Mr. Kelley. Cruisers of the second class; what about the Olympia in 1916?

Admiral Potter. The Olympia was not in commission at all; she was entirely out.

Mr. Kelley. How much did we spend on her?

Admiral Potter. \$80,056.07.

Mr. Kelley. How much in 1921?

Admiral Potter. In 1921, 12 months' commission, \$1,179,800.66.

Mr. Kelley. When was she first put into commission?

Admiral POTTER. She was first put into commission February 5, **189**5.

Mr. Kelley. How much was expended on her during the first three months of this year?

Admiral Potter. \$163,338.28.

Mr. Kelley. How much did her repairs amount to during this quarter?

Admiral Potter. This quarter's repairs amounted to \$4,382.39.

Mr. Kelley. What did they amount to last year?

Admiral POTTER. \$21,244.07.

Mr. Davis. What is the general nature of those repairs?

Admiral POTTER. All sorts of odds and ends. The steelwork, for instance, may get chipped and possibly cracked, and have to be We may have to take a piece of angle iron out and renew On the other hand, there may be just some woodwork to be repaired about the ship, or a plate may get bent in contact with another ship, and that would have to be straightened out. It consists of all sorts of general mechanical and carpenter work, including machinery repairs, also.

Mr. Kelley. What about the Columbia in 1916?

Admiral Potter. In 1916 the Columbia was in full commission and her total expenses were \$382,433.69.

Mr. Kelley. How much were they for 1921?

Admiral Potter. In 1921 she was for 11 months in full commission, and her expenses were \$950,571.52.

Mr. Kelley. When was she first put into commission?

Admiral POTTER. On August 23, 1894.

Mr. Kelley. You have disposed of her now, have you not?

Admiral POTTER. Yes, sir.

Mr. Kelley. There is a Columbia, but not this one?

ADMIRAL POTTER. There was one.

Mr. Kelley. You may insert your table covering cruisers of the second class at this point.

Admiral POTTER. I will do so.

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		Title (-	:				Months in commlession.	
of vanced	Actual pay	Fublic vorther furthermined	Stores issued including pro- visions and medical stores;	Total checuting expense	isepaire and alberation: Lo ship: hedud- ing equipage	Total main- tringner and operation	Tonnage.	Date of lirst commessor.	Full com Commis- Mission Monite Mission reserve	Commis Stoti iti Prefervo.
		_			i					
	250, 326, 20	8,441.91	825-, 409-116 92, 196-71	845, 010, 25 325, 400, 42	전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	342, 433, 64	4.1-1 88.5 88.5	Apr. 17, 1880 Apr. 28, 1884	12	:
		45.10	48. (92.)	165, 24	76, 461, 32	50,056,70 30,056,70				
Total	20,412 01	8, 884. 68	180,788.15	411,006.65	149, -21, 29	340, N57, 74 140, 214, 44			7 : :	
Grand cotal		: •	:			701,072.15				
ļ.		.s.m.g.			; '	: 				
Matter of county.	Avry med feety	Missellamenta expense, in chiding com mitted rations	ite Stores Indicel, in The Stores Indicel, in The Stores All Cores.	Total J. operating r. expenses.	Едшряке.	icranicand alterations to ships, including equipage.	Total maintenance and opera- tion.	re Ton-	Pate of first commission.	Months in com- mutato
MALI HEALTH - MA	·		•							
Managed to the control of the contro	84.31) outs 4.3 6777 204 (17 2677 620 4.3 624, /(10 n.3	13	21 gras, 100, 20 103 102, 801, 04 20 116, 063, 50 100 400, 503, 54	8507, 127, 43 MD, 668, 04 385, 368, 77 1, 131, 883, 05	829, 797, 49 44, 014, 75 3, 546, 75 28, 673, 54 1, 777, 00	888, 588, 22 100, 840, 73 13, 086, 49 21, 244, 07	\$425,504,14 1850,571,52 442,033,02 1,179,800,60	23 25 00 24 14 14 14 25 15 16 16 25 16 16 16 16 16 16 16 16 16 16 16 16 16	Aug. 17, 1889 Aug. 23, 1894 Dec. 13, 1894 Feb. 5, 1885	3446 :
Total	1, 1110, 241. 74	74 106, 22A. 00	IN KH, 57K, 46	6 2, 130, 046. 29	105, 879. 54	223, 764. 51	3, 150, 090, 34	76		

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Issued, ing expenses. Equipage. Alternations to denance and pays including expenses. Equipage. Ships, includ. Operation. full compilers and single equipage. Operation. full commission. 19, 48, 50, 48, 50, 48, 48, 50, 48, 48, 50, 48, 48, 50, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48	Miscellaneous Stores issued, expense, in-including muted rations. \$19.48 \$255.60 \$39,000.07	Accrued pay. \$104, 755. 12	Name of vessel. CRUISERS—SECOND CLASS. Chicago. Columbia. Minneapolis. Diympia.
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CRUISERS OF THIRD CLASS.

Mr. Kelley. We will now take up cruisers of the third class.

Admiral Potter. The Birmingham was in full commission for 12 months in 1916, and her expenses were \$404,608.82. In 1921 she was also in full commission, and her expenses were \$869,502.95. For the first quarter of 1922 her expenses have been \$162,230.72.

Mr. Kelley. How much have her repairs amounted to?

Admiral Potter. Her repairs for this quarter, in the fiscal year 1922, have been \$32,897.19. Going back to 1921, her repairs were \$93,505.35, and in 1916 her repairs amounted to \$60,147.27. She was put into commission on April 11, 1908.

Mr. Kelley. Do you know how many men these cruisers of the

third class call for?

Admiral POTTER. I should say about 400 men.

Mr. Kelley. You will have full complements inserted, all the way down?

Admiral Potter. Yes, sir.

Mr. Kelley. You may supply a statement showing the actual number on a definite date, say on July 1, 1921, and the actual number at the present time.

Admiral Potter. Yes, sir.

Mr. Kelley. Now, we will take the Galveston.

Admiral POTTER. The Galveston was in full commission in 1916, and the total amount spent on her was \$236,232.10. In 1921 she was also in full commission, and the total expense was \$785,777.19.

Mr. Kelley. That is a very heavy increase.

Admiral POTTER. For the first quarter of 1922 her expense was \$186,111.19.

Mr. Kelley. How much did the repairs amount to?

Admiral Potter. The repairs for the first three months of 1922 amounted to \$71,231.90, for 1921 they amounted to \$80,358.94, and for 1916 they amounted to \$12,890.71. She was first commissioned on February 15, 1905.

Mr. Kelley. At this point you can put in the tables covering the

third-class cruisers.

Admiral POTTER. I will do so.

		Title C.							Months in commis- sion.	s in commis sion.
Name of vessel.	Aeerued pay.	Public voucher (including commuted rations).	Stores Issued (including pro- visions and medical stores).	Total operating expenses.	Repars and alterations to ships, includ- ing equipage.	Total main- tenance and operation.	Tonnage	Date of first commission.	Full com-	Commis- sion in reserve.
CRUISERS-THIRD CLASS.	,									
Albany, Baston, Baston, Pattanopa, Pattanopa	84, 689, 45 942, 351, 27 8, 746, 68 148, 182, 48 184, 684, 12 185, 243, 07 186, 243, 07 186, 243, 07 186, 243, 07 187, 287, 28 188, 789, 14 188, 789, 14	21, 1533. AS 21, 1684. TI 37, 7644. 70 37, 7644. 70 37, 7647. 70 37, 7647. 70 37, 7647. 70 38, 70 37, 7647. 70 38, 70 37, 7647. 70 38, 70 37, 7647. 70 37, 7647. 70	949 KSS 19 96 WH 17 P 1 194 OF 203 WH 27 P 203 WH 28 203	\$135, 163, 12 \$14, 161, 52 10, 924, 175 \$25, 251, 67 \$402, 955, 69 \$402, 955, 69 \$25, 218, 545, 69 \$25, 218, 545, 69 \$25, 318, 545, 69 \$2	83, 409, 78 11,47, 20 11,47, 20 11,40, 20 11,40, 20 11,50, 20 12,50, 20 12,50, 20 13,50, 20 14,50, 20 16,50, 20	810, 572 88 10, 605 17 11, 602 17 27, 102 17 27, 102 17 21, 97, 10 20, 20, 20 20, 20 2		May 29, 1900 May 29, 1900 May 2, 1887 Opt. 11, 1900 Opt. 11, 1900 May 17, 1904 May 17, 1904 Feb. 18, 1906 Apr. 2, 1888 Mar. 18, 1908 Mar. 18, 1908 Apr. 17, 1894 Apr. 17, 1894 Apr. 17, 1894	ud 5555553	3 33 3
Total. Equipage	1,861,954.83	46	4			3, 522, 037, 56 880, 409, 39	111	8		
Grand total			-			4, 402, 546, 95				

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	Title C.				Repairs and	Total			Month
Acerned pay.	Miscellaneous Si expense, in- in cluding com- muted rations, m	Stores issued, including pro- visions and medical stores.	operating expenses.	Equipage.		maintenance and opera- tion.	Ton- nage.	Date of first commission.	in com- mission.
\$237, 367, 23	\$11,638.20	\$131, 267. 82	\$380, 273, 25	\$16, 333, 48	\$136,998.07	\$533,604.80	3,430		12
388, 839, 36	10, 752, 49	349, 305, 39	748, 897, 24	27, 100, 36	93, 505, 35	869, 502, 95	3,750	15,	12
368, 148, 30	38, 761, 68	277, 570, 75	684, 480. 73	15, 574, 54	14,958.85	714, 214, 12	3,200	Oct. 11, 1904	12
100, 101, 5a	6,969,44	200, 100, 00	6,969,44	1,777,00	1,405.96	10, 152, 49	3, 207		
270, 926, 96	18, 277. 15	157, 474, 71	446, 678, 82	24, 576, 58	107, 123, 70	578, 379, 10	3, 207		13
217, 717, 42	11,300.89	110, 501, 09	339, 519, 40	48, 459, 45	357, 315, 47	471 500 70	3,200		-
439, 256, 79	25, 357, 01	217,096.21	681, 710, 01	23, 708, 24	80,358.94	785, 777, 19	3, 200	Feb. 15, 1905	12
	61.00	195, 25	256, 25		19,948.25	20, 204, 50	2,072		
272, 445. 37	17, 660, 09	216, 358, 42	506, 463, 88	15,013.73	56, 876, 23	578, 353, 84	3,183		12
350, 455, 19	15, 150, 74	276 311 55	641 917 41	:8	191 389 85	805, 700, 60	200		
449, 942. 51	33, 804, 00	203, 147. 66	776, 894, 17	33, 823, 88	95, 475, 50	906, 193, 55	3,200	Jan. 30, 1994	131
3, 410, 959. 61		O MON 000 D	0 001 100 00						1

bitst quarter.

	,	Days out of com- mission.	i i	:	28		8	-8	45		
	Status.1	Operating with reduced Decomple comple ments in n reserve or ordinary.									
		Days in full com- mission.			19						
		Total main- tenance and operation.		\$156,972.50	3, 896, 68	4, 729, 65 126, 369, 20	113,286.22	186, 111, 19	115, 986. 04	109, 438, 55	1, 113, 464. 18
		Repairs and alterations to ships, inclinding equipage.			3, 715. 63			71, 231. 90	1, 407.57	13, 137. 75	128, 391. 24
		Equipage.		\$22, 168, 84 0, 645, 29	771.15				1,510.40		133, 330. 68
!!!		Total operat- ing exponses.			11, 464. 66	:	111, 719. 42	96, 520, 29 2, 35	112, 988, 07 48, 395, 39	93, 253. 21	851, 742. 26
	l	Stores issued, including provisions.		31 764 82	2, ×40. 48 174. 00	54, 993, 27	43, 960. 93	25, 463, 59	44, 454.06 14, 363.27	31, 460. 72	317, 084. 08
	Title C.	Miscellaneous expense, in- cluding com- muted rations.		\$995. 81 2, 409. 87		2, 106, 12		1, 789. 14	116.04		8, 572. 08
		Awried pay.		662, 825, 56 85, 513, 55	8,624.18	69,006,93	67, 758. 49	69, 267. 56	88, 534. 01 33, 916. 08	60, 639. 74	526, 086. 10
		Name of vessel.	CRUISERN-THIRD CLASS.	Albany	Chester Chester	Cincinnati	Denvor. Des Moines.	Galveston. Marblehead.		Tacoma.	Total
_		ģ	! :	3555	388	3557	3554	3557	35 25 25 25	3568	

¹ All cruisers, third class, in commission 92 days unless otherwise shown.

MONITORS.

Mr. Kelley. Suppose you take the Cheyenne.

Admiral Potter. The Cheyenne was in full commission for 12 months in 1916, and the total operating expense was \$231,584.44. We have nine months of the Cheyenne in 1921.

Mr. Kelley. How much is that? Admiral Potter. \$299,670.77.

Mr. Kelley. These monitors have been in and out quite a bit? Admiral Potter. Yes, sir. For the first three quarters of 1922, the expense was \$37,515.21. The repairs on the Cheyenne for 1922 amounted to \$213.31, while her repairs for 1921 amounted to The repairs on the Cheyenne for 1916 amounted to **\$**13,131.94. **\$**19,972.96. She was first commissioned on December 8, 1902.

Mr. Kelley. How long have the monitors been in commission this

year, or during the first three months?

Mr. Reed. You have a notation on the table right there.

Mr. Kelley. The monitors were in full commission for 92 days. except as shown otherwise, according to this notation.

Mr. Reed. Four were entirely out, one in for part of the time,

and one has been in for full time.

Mr. Kelley. So that the monitors are practically out of the way

Mr. Reed. Yes, sir.

Mr. Kelley. You may put in your table covering the monitors at this point.

Admiral POTTER. I will do so.

93, 862, 28 3, 225 Mar. 5, 1, 089, 333, 50	100.11 \$1, 404.11 \$23, 418.36 \$804,912.88 \$200,160.31 \$885,073.19 3,990 Apr. 23,1806 1902 1902 10,972.96 231,584.44 3,225 Dec. 8,1902 1902 10,972.96 231,584.44 3,225 Dec. 8,1902 1 386.07 2,247.83 112,800.72 188,444.62 4,818.57 3,900 Oot. 27,1801 1 131.68 3,175.85 39,804.48 110,162.01 15,872.86 129,004.87 4,084 Feb. 20,1806 1 104.53 3,880.36 4,545.55 155,848.39 136,908 Apr. 13,1805 1 519.61 1,783.43 64,545.55 155,848.39 4,565.11 3,990 Apr. 15,1835	Name of vessel. Public vouch- ets, including procommuted pay, commuted rations. Public vouch- Stores issued, expenses. Ships, includ- operation. Total main- sion in mission. Teserve.
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	first Months in com-		3,900 Apr. 23,1895 3,255 Dec. 8,1802 9,000 Feb. 20,1896 4,084 Feb. 13,1883 3,225 June 18,1903 3,225 Mar. 5,1903
	Date of first commission.		Apr. 23, Peb. 29, Feb. 29, Oct. 28, June 18, Mar. 5,
	Ton- nage.		0 2 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
E	maintenance and opera- tion.		289, 670, 771 15, 280, 670, 771 187, 772, 87 37, 695, 88 37, 695, 88 37, 695, 88 37, 695, 88 37, 695, 88
Repairs and	alferations to ships, including equipage.		8983.01 13, 131.94 16, 073.88 5, 318.25 5, 488.25 22, 025.00 3, 458.39 3, 458.39
	Equipage.		\$191, 920.55 12, 480.41 187, 723.73 187, 723.73 18.29 392, 775.24
	Total operating expenses.		\$60.51 94,617.90 862.85 169,463.6 57,948.05 32,948.05 32,948.05 33,948.05
	Miscellaneous Stores issued, expense, in- including pro- cluding com- visions and uted rations. medical stores.		860.51 92,447.82 980.89 74,991.99 30,151.86 32,539.19
Title C.	Miscellaneous expense, in- cluding com- muted rations. n		890, 51 821, 170, 08 891, 494, 81 27, 151, 50 27, 151, 50 118, 636, 31 5, 825, 04 220, 835, 67 364, 297, 02
	Accrued pay.		\$91,484.81 27,151.50
	Name of vessel	MONITORS,	Amphitrite (Leyenine Monadnock Monterey Ozark Tallahasse Tonopah Puritan
-	No.		3601 3602 3603 3607 3607 7925

| First quarter.

	NAVY DEP	ABIMENI AFFAC
	Days out of com- mission.	8.8.8
Statur.1	Operating with reduced complements in reserve or ordinary.	38
	Days in full com- mission.	7, 515. 21 11, 557. 10 13, 572. 66 15, 073. 10 345. 59 16, 159. 69
	Total main- tenance and operation.	887, 515, 21 21, 537, 10 27, 52, 66 15, 075, 10 345, 83
	Repairs and alterations to ships, including equipage.	2213.31 93.16 78.16 72.66 824.73 344.83
	Equipage.	\$184.63 131.66 2,428.64 2,744.92
	Total operat- ing expenses.	21, 346.2% 11, 821.68 11, 821.68 70, 286.23
	Stores issued, including provisions.	814, 499.58 8, 547.07 2, 009.23
Title C.	Miscellancous expense, in- cluding com- muted rations.	8624.08 1183.11 60.10 878.29
:	Acrued pay.	\$21, 963, 61 12, 608, 10 9, 752, 35 44, 352, 08
	Name of vessel.	MONTORS. Cheyenne Monadinock Monterey Oxark Tallahassee Tonopah
	ė Ž	3802 3802 3807 3808 3808

¹ All monitors in commission 92 days unless otherwise shown.

DESTROYERS.

Mr. Kelley. How many destroyers are in your table for 1921? Mr. REED. We will have to count them up. Our table or recapitulation shows 267 in commission at various times during the year.

Mr. Kelley. Suppose you count them up.
Mr. Reed. You want the number on which expenditures were
made during 1921?

Mr. Kelley. Yes.

Mr. REED. There were 267. That is the number that was in commission during some portion of the year.

Mr. Davis. Of all grades?
Admiral Potter. Yes, sir; including coast defense destroyers.

Mr. Kelley. That is not the total number, is it?

Admiral Potter. No, sir.

Mr. Kelley. You can put in a statement showing the exact number of destroyers on which expenditures were made in 1921.

Mr. REED. I will do so.

Note.—Total, 328. In commission part or whole year, 267. Coast torpede vessels and torpedo boats, 31.

Mr. Kelley. What was the total cost of maintenance and operation of the destroyers in 1921?

Admiral POTTER. Of the whole group?

Mr. Kelley. Yes; the whole group.

Admiral POTTER. The total for 1921 was \$75,869,098.92.

Mr. Kelley. That does not include the cost of maintenance and operation of fuel ships and supply ships necessary to go with the destroyers! Admiral Potter. No, sir; that is for the destroyers themselves.

Mr. Kelley. How many destroyers did you have in 1916?

Mr. REED. Fifty-seven.

Mr. Kelley. What was the total cost of the destroyers in that year! Admiral POTTER. \$4,231,092.07.

Mr. Kelley. Will you give the amount for 1922?

Admiral Potter. \$15,321,703.69 for the first three months of 1922. Mr. REED. There is one thing in regard to these figures to which I should call attention, and that is that the two tables for 1916 to 1921 are prepared upon a slightly different basis. The 1916 figures do not include issues of equipage to ships. We did not have the split up by individual ships at that time, whereas for 1921 the figure do include issues of equipage to the ships. Therefore, the 1916 figures will have to be increased very slightly over the amount shown here in order to bring them upon a comparable basis.

Mr. Kelley. Where did you carry equipage in 1916?

Mr. REED. It was carried as a lump sum, and we did not split it up by ships at that time.

Mr. Kelley. Did you split it by groups of ships?

Mr. REED. I think we can give a typical average from the 1922 figures if it is not split in the report that way.

Mr. Kelley. The main thing is to know the approximate amount of it, so that our minds may not be confused by indefinite figures.

Suppose you read the statement giving the total for the item von mentioned.

Mr. REED. The report does not show it. The total amount of the equipage issued to ships in 1916 was \$14,007,523.17, increasing the table 25 per cent when compared with 1921 and 1922.

Mr. Kelley. To all ships?

Mr. REED. Yes, sir; we will have to make a distribution of that by

lasses as best we can, so as to get it upon a comparable basis.

Mr. French. Would the percentage figure, using the total expenliture for equipage for the year 1921, indicate the proportionate igures for equipage in 1916?

Mr. REED. That might give a fairly accurate basis, but I would like

o talk it over with the people who are handling the details.

Note.—Twenty-five per cent has been added to all 1916 tables by groups and an malysis of the normal equipage for principal ships is here included.

Average cost of equipage for the following classes of vessels during the first quarter of fiscal year 1922.

Battleship, first line	\$23, 104, 18
Battleship, second line	5, 230. 87
Armored cruisers	8, 535. 94
Cruisers, first class	
Cruisers, second class	
Cruisers, third class	
Destroyers	4, 527. 94

Mr. Kelley. Equipage covers replacements in the way of furniture, bedding, hammocks, boats, etc.?

Admiral Porrer. Yes, sir; anything that makes the ship habit-

able and usable, as distinguished from consumable supplies.

Mr. Kelley. It would vary, of course, in proportion to the general prices at any particular period.

Admiral POTTER. Yes, sir.

Mr. Kelley. But it would not vary very greatly in the number of articles.

Admiral Potter. No, sir.

Mr. REED. In connection with the particular group we are discussing now, or destroyers, in 1921 the amount of equipage issued to them was \$23,000,000. That was because of the tremendous number of new destroyers coming along and being put into commission, and in the case of many of those destroyers that amount includes the initial outfit. In other words, the figures for 1921 are undoubtedly accessive for equipage for the group of destroyers in commission.

Mr. Kelley. You have been in the business so long that you robably could tell pretty well what it would average per battleship

per annum for replacement of equipage?

Admiral POTTER. I could not tell you that offhand, but we could

Mr. Kelley. For destroyers it would be rather negligible, as com-

pared with the whole amount, would it not?

Admiral Potter. The amount for a destroyer would be small as compared with a large ship, but with this number in commission it would amount to quite a sum of money.

Mr. Kelley. You may give that as accurately as you can. course, I do not want to put the department to any unusual or need-

less effort.

Col. ROOSEVELT. What you want is a reasonable approximation of

the amount?

Mr. Kelley. Yes; so that we may have an intelligent understanding of it. You may insert your table at this point.

Admiral Porter. We will do so.

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		Title C.			Donales	The state of the state of			Months in commis- sion.	commis- n.
Name of vessel.	Accnied pay.	Public vonchers (Including commuted rations).	Stores Issued (including pro- visions and medical stores).	Total operating expenses.	alterations to ships, includ- ing equipage.	operation.	Tonnage.	Date of first commission.	Full com- mission.	Commis sion in reserve.
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73. 44 193. 251. 60 60, 108. 691. 99 87, 006. 908. 04 57, 645.	563, 74 1, 201, 88 R2, 501, 501, 121, 95 83, 82 R2, 503, 121, 121, 95 83, 82 R2, 575, 121, 121, 121, 121, 121, 121, 121, 12	1, 039, 76 133, 937,	102.68 3,346.94 64,170.	413. 14 1, 240. 26 57, 101.	1, 866. 71 51, 125. 1, 486. 35 123, 200. 1, 129. 00 78, 628.	200. 74 1, 855. 78 103, 190. 203. 97 376. 34 67, 285. 619. 90 32, 551. 50 151, 745.	633.77 2,300.56 89,352. 159.79 1,518.70 77,021.	1, 104, 19 83, 107. 202, 30 56, 894, 1, 115, 42 23, 464.	624. 94 1, 256. 81 80, 225. 150. 73 2, 383. 86 140, 241. 203. 51 2, 459. 50 128, 230.	494.96 751.41 69,460. 17.68 49,026.	420.68 1, 021.40 53, 244.	702.49 24.48 45,462.	211.78 899.33 132,100.	344.30 476.87 100,066. 048.58 2,132.40 117,348.	158, 51 117, 72 45, 293. 169, 29 30, 75 36, 696. 285, 72 0, 0, 0, 0, 957.	642. 15 2,013. 81 96,540.
434, 17 221, 60 60, 108, 108, 108, 108, 108, 108, 108, 10	563, 74 1, 201, 88 R2, 501, 501, 121, 95 83, 82 62, 573, 121, 121, 121, 121, 121, 121, 121, 12	5473.76 0505.35 057, 343, 2577, 2500, 73 1.039, 76 133, 3677,	102.68 3,346.94 64,170.	413. 14 1, 240. 26 57, 101.	948, 71 1, 866, 71 51, 125, 105, 37 1, 486, 35 123, 200, 471, 59 1, 129, 00 78, 628,	200. 74 1, 855. 78 103, 190. 203. 97 376. 34 67, 285. 619. 90 32, 551. 50 151, 745.	633.77 2,300.56 89,352. 159.79 1,518.70 77,021.	692. 82 1, 104. 19 83, 107. 758. 33 202. 30 56, 894. 747. 51 1, 115. 42 23, 464.	624. 94 1, 256. 81 80, 225. 150. 73 2, 383. 86 140, 241. 203. 51 2, 459. 50 128, 230.	494.96 751.41 69,460. 17.68 49,026.	420.68 1, 021.40 53, 244.	702.49 24.48 45,462.	211.78 899.33 132,100.	344.30 476.87 100,066. 048.58 2,132.40 117,348.	158, 51 117, 72 45, 293. 169, 29 30, 75 36, 696. 285, 72 0, 0, 0, 0, 957.	642. 15 2,013. 81 96,540.
20, 42M, 17 251, 60 60, 108, 100, 100, 100, 100, 100, 100, 10	82, 565, 74 1, 201, 88 82, 931, 831, 831, 831, 831, 831, 831, 831, 8	45, 473, 76 505, 50 50	61,688 3,346.94 64,170. 77,906.84 772.88 88,274.	413. 14 1, 240. 26 57, 101.	948, 71 1, 866, 71 51, 125, 105, 37 1, 486, 35 123, 200, 471, 59 1, 129, 00 78, 628,	108, 800, 74 1, 855, 78 103, 196, 46, 203, 97 376, 34 67, 285, 94, 619, 90 32, 551, 50 151, 745,	52, 156. 79 1, 518. 70 77, 021.	70, 692, 82 1, 104, 19 83, 107. 43, 758, 33 202, 30 56, 894, 39, 747, 51 1, 115, 42 23, 464.	78, 624, 94 1, 256, 81 80, 225, 150, 73 2, 383, 96 140, 241, 241, 48, 203, 51 2, 459, 50 128, 230,	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	68, 420, 68 1, 140, 85 1, 141, 85 1, 14	702.49 24.48 45,462.	211.78 899.33 132,100.	344.30 476.87 100,066. 048.58 2,132.40 117,348.	158, 51 117, 72 45, 293. 169, 29 30, 75 36, 696. 285, 72 0, 0, 0, 0, 957.	642. 15 2,013. 81 96,540.
20, 42M, 17 251, 60 60, 108, 100, 100, 100, 100, 100, 100, 10	82, 565, 74 1, 201, 88 82, 931, 831, 831, 831, 831, 831, 831, 831, 8	45, 473, 76 505, 50 50	61,688 3,346.94 64,170. 77,906.84 772.88 88,274.	76, 413.14 1, 260.26 34, 754. 26.00 34, 754.	127, 948, 71 1, 866, 71 51, 125, 105, 105, 105, 105, 105, 105, 105, 10	108, 800, 74 1, 855, 78 103, 196, 46, 203, 97 376, 34 67, 285, 94, 619, 90 32, 551, 50 151, 745,	52, 156. 79 1, 518. 70 77, 021.	70, 692, 82 1, 104, 19 83, 107. 43, 758, 33 202, 30 56, 894, 39, 747, 51 1, 115, 42 23, 464.	78, 624, 94 1, 256, 81 80, 225, 150, 73 2, 383, 96 140, 241, 241, 48, 203, 51 2, 459, 50 128, 230,	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	120, 881, 85 1, 140, 85 131, 312, 312, 312, 312, 312, 312, 312,	7.02. 49 24.48 45,462.	115, 211. 78 899.33 132, 100, 100, 100, 100, 100, 100, 100, 10	73, 773, 71 54, 745, 71 123, 048, 58 2, 132, 40 117, 348,	12, 158, 51 117, 72 45, 293, 17, 784, 293, 189, 29 30, 75 30, 75 30, 696, 29 30, 75 30, 696, 696, 696, 696, 696, 696, 696, 69	60, 642. 15 813. 81 96, 540.
20, 43M, 17 201, 60 20, 03M, 93 691, 99 87, 096, 72, 63M, 86 903, 04 57, 646, 72, 63M, 86	82, 565, 74 1, 201, 88 82, 931, 831, 831, 831, 831, 831, 831, 831, 8	45, 473, 76 505, 50 50	61,688 3,346.94 64,170. 77,906.84 772.88 88,274.	76, 413.14 1, 260.26 34, 754. 26.00 34, 754.	127, 948, 71 1, 866, 71 51, 125, 105, 105, 105, 105, 105, 105, 105, 10	108, 800, 74 1, 855, 78 103, 196, 46, 203, 97 376, 34 67, 285, 94, 619, 90 32, 551, 50 151, 745,	52, 156. 79 1, 518. 70 77, 021.	70, 692, 82 1, 104, 19 83, 107. 43, 758, 33 202, 30 56, 894, 39, 747, 51 1, 115, 42 23, 464.	78, 624, 94 1, 256, 81 80, 225, 150, 73 2, 383, 96 140, 241, 241, 48, 203, 51 2, 459, 50 128, 230,	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	120, 881, 85 1, 140, 85 131, 312, 312, 312, 312, 312, 312, 312,	7.02. 49 24.48 45,462.	115, 211. 78 899.33 132, 100, 100, 100, 100, 100, 100, 100, 10	73, 773, 71 54, 745, 71 123, 048, 58 2, 132, 40 117, 348,	12, 158, 51 117, 72 45, 293, 17, 784, 293, 189, 29 30, 75 30, 75 30, 696, 29 30, 75 30, 696, 696, 696, 696, 696, 696, 696, 69	60, 642. 15 813. 81 96, 540.
20, 43M, 17 201, 60 20, 03M, 93 691, 99 87, 096, 72, 63M, 86 903, 04 57, 646, 72, 63M, 86	82, 565, 74 1, 201, 88 82, 931, 831, 831, 831, 831, 831, 831, 831, 8	45, 473, 76 505, 50 50	61,688 3,346.94 64,170. 77,906.84 772.88 88,274.	76, 413.14 1, 260.26 34, 754. 26.00 34, 754.	127, 948, 71 1, 866, 71 51, 125, 105, 105, 105, 105, 105, 105, 105, 10	108, 800, 74 1, 855, 78 103, 196, 46, 203, 97 376, 34 67, 285, 94, 619, 90 32, 551, 50 151, 745,	52, 156. 79 1, 518. 70 77, 021.	70, 692, 82 1, 104, 19 83, 107. 43, 758, 33 202, 30 56, 894, 39, 747, 51 1, 115, 42 23, 464.	78, 624, 94 1, 256, 81 80, 225, 150, 73 2, 383, 96 140, 241, 241, 48, 203, 51 2, 459, 50 128, 230,	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	120, 881, 85 1, 140, 85 131, 312, 312, 312, 312, 312, 312, 312,	7.02. 49 24.48 45,462.	115, 211. 78 899.33 132, 100, 100, 100, 100, 100, 100, 100, 10	73, 773, 71 54, 745, 71 123, 048, 58 2, 132, 40 117, 348,	12, 158, 51 117, 72 45, 293, 17, 784, 293, 189, 29 30, 75 30, 75 30, 696, 29 30, 75 30, 696, 696, 696, 696, 696, 696, 696, 69	60, 642. 15 813. 81 96, 540.
20, 43M, 17 201, 60 20, 03M, 93 691, 99 87, 096, 72, 63M, 86 903, 04 57, 646, 72, 63M, 86	82, 563, 74 1, 201. 88 82, 583, 583, 583, 583, 583, 583, 583, 583	49, 513, 79 503, 50 50 503, 50 5000, 50 5000, 50 5000, 50 500000, 50 50000, 50 50000, 50 50000, 50 500000000	61,688 3,346.94 64,170. 77,906.84 772.88 88,274.	76, 413.14 1, 260.26 34, 754. 26.00 34, 754.	127, 948, 71 1, 866, 71 51, 125, 105, 105, 105, 105, 105, 105, 105, 10	108, 800, 74 1, 855, 78 103, 196, 46, 203, 97 376, 34 67, 285, 94, 619, 90 32, 551, 50 151, 745,	52, 156. 79 1, 518. 70 77, 021.	70, 692, 82 1, 104, 19 83, 107. 43, 758, 33 202, 30 56, 894, 39, 747, 51 1, 115, 42 23, 464.	78, 624, 94 1, 256, 81 80, 225, 150, 73 2, 383, 96 140, 241, 241, 48, 203, 51 2, 459, 50 128, 230,	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	120, 881, 85 1, 140, 85 131, 312, 312, 312, 312, 312, 312, 312,	7.02. 49 24.48 45,462.	115, 211. 78 899.33 132, 100, 100, 100, 100, 100, 100, 100, 10	73, 773, 71 54, 745, 71 123, 048, 58 2, 132, 40 117, 348,	12, 158, 51 117, 72 45, 293, 17, 784, 293, 189, 29 30, 75 30, 75 30, 696, 29 30, 75 30, 696, 696, 696, 696, 696, 696, 696, 69	60, 642. 15 813. 81 96, 540.
20, 42M, 17 251, 60 60, 108, 100, 100, 100, 100, 100, 100, 10	Philip Philip R. 563. 74 1, 201. 88 82, 531 Philip Philip R. 563. 74 1, 201. 88 82, 531 Philip Philip R. 503. 74 Philip P	Porter (4) 337. 60 521. 56 22 384. Preble (1) 124. 277. 72 1, 444. 1 104. 154. Prekton, W.m. B (1) 500. 73 1, 639. 76 133. 837.	Preston 01,688 Putnam 111,102.68 3,346.94 64,170 Radford 77,906.94 772.83 85,774	Rathburne 76,413.14 1,404.26 34,754. Reid 26 34,754.	Reid 125, 126, 127 1, 1866, 71 51, 125, 125, 126, 127, 128, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 127, 128, 128, 128, 128, 128, 128, 128, 128	Kruben James 108, 600,74 1,855,78 103,196, Ringgold 46, 203,97 376,34 67, 285, Rizal 94, 619,90 32, 551, 50 151,745,	52, 159. 79 1, 518, 70 77, 021.	Roper 70,662.89 1,104.19 83,107 Rowan 43,7754.39 30,239 56,894 Sampson 30,747.51 1,115.42 23,549	Sands 78,634,94 1,256,81 80,225, Satterier 122,130,73 2,385,86 140,241, Schenot 148,283,51 2,459,50 138,230	41, 494, 96 751, 41 69, 460, 480, 28, 89, 930, 73 17, 68 49, 026,	Sharkey 1, 140. 85 131, 312.	Shirk 20, 20, 49 24, 48 45, 462, 40 Children	Signed 25,005, 10 5,005, 17 6,005, 17 105, 21, 100, 25, 100, 105, 105, 100, 105, 105, 105, 10	Signature 35, 173, 11 1, 100, 100, 100, 100, 100, 100, 1	12, 158, 51 117, 72 44, 293, 1798, 293, 1798, 29, 169, 29 30, 75 31, 798, 29, 21, 69, 29, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	Sometra 813.81 86,540.

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		Title C.				Repairs and				
Name of vessel.	Aecrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission,
DESTROYERS-continued.										
Southard	397.	257.	197	\$256, 352, 72	106	\$20, 532. 06	8	1,215	25	12
Stansbury	48, 107, 14	1, 416, 71	99, 208, 03	116, 241. 27	23, 237. 63	62, 898, 37	202, 377. 27	1,191	Jan. 8, 1920	12
Stevens	793.	753.	530	99, 077, 62	125	91, 425, 08	36	1, 191	33	
Stewart	702	764.	646	119, 113, 05	126	31, 296. 60	38	1,215	13	
Stockton	38	1.060	448,4	239, 293, 16	38	6, 468, 51	40,0	1, 125	98	25.5
Stribling	168	1, 174.	88	138, 824, 35	255	20, 659, 92	39	1,191	16,	
Stringham	55, 433, 16	1, 232, 42	38, 371, 88	95, 037, 46	512	68, 792, 20	3	1,191	July 2, 1918	12
Summer	9	1,019.	828	100, 119, 08	137	0, 120. 47	37.0	1,215	4	
Swasey	68, 076. 01	2, 443. 32	81, 944. 36	152, 463. 69	23, 095, 95	76, 474, 44	34	1,215	Aug. 8, 1919	12
Palbott I Fred	715	537	38	437	770	352	668	1.154	18	
Tarbell	256.	153	708	117.	982	666.	166	1,154	27	
Fatnall	146	2, 836, 22	974	956	321	354.	200	1,211	29	
aylor	343	264	1	275	28	12	98	742	18	
l'hatcher	936.	527.	10	164	825	684	375	1, 191	14	12
Chomas	69, 696, 62	4,070.	470		88	714.	96	1,213	8	
hompson	19	2 449	800	910	38	380	25	1,213	0,1	
Fillman	1	3, 413.	200	250	195	ġ	ġ	1,410	36	
Pingar	420	2 594	444	288	3	Į,	3 15	1, 215	1	:
Loneev	633	1.844	110	888	652	142	38	1.215	di	12
Fracy	960	2,871.	83, 244, 60	212	57, 621. 99	973	204	1,215	6	
Frever	***************************************	Action Comments		160 00	Ŧ	77.5	316	1,215	66	
Person	204	999 59	200	900	170	SUB.	200	1 915	3 =	
Poeler	486	753 26	574	814	100	200	200	1,000	9	1
Turner	51, 463, 73	1,240,12	64, 008, 65	116, 712, 50	38, 786, 10	83, 886. 86	35	1,215	Sept. 24,1919	32
Lwiggs	18	741.91	269	429	818	994	至	1.211	38	

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ě		77. 28A. 61	354.62	K3, 116, 27	90, 757, 50	208, 072, 30	9, 130, 72	308, 508, 45	1,215	Sept. 2, 1919	:	: •
1	Whipple	Ş		ş	912	ğ	358	8	1,215	S		2
22	Wicker	Ξ.		8	ğ	376	275	30	1.154	3		0
8	Wilker	ž		ź	ğ	8	ž	\$	1,110	`≘		2
\$	Williams	7		₹.	ž	217.	Ę	3	1, 191			2
3	Williamson	ই		3	ğ	ន	₹	2	1,215	8		œ
8	Winslow	38		ş	Ş	떯	549	8	1,050			2
_	Wood	`		ଞ୍ଚ	Ŕ	텷	010	98	1,215	8		ĸ
_	Woodbury	8		97.	뛇	텵		274	1,215	8		20
2	Woolsev	5		ğ	Ę,	25	8	8	1, 154	8		2
88		Š		ă	ž	뙲	8	710	1,215	2		2
1314		13, 934, 20		8	젍	317.	88	5	1,215	31		9
5	Yarnall	3		385	Š	82		202	1, 154	8		12
312	Young	8		8	ž	574	218	516.	1,215	8	_	2
4313	Zeilln	3		816.	278	ឌ		8	1,215	`=		9
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	Total	19, 858, 218, 86	523, 495, 42	21, 959, 134. 08	42, 340, 848, 36	23, 666, 135, 20	9, 862, 115, 36	75, 869, 098, 92			-	:
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1922. [First quarter.]

	NAVY DEP	ARTMENT APPROPRIATION BILL, 1923.
	Days out of com- mission.	26 26 38
Status.1	Operating with reduced complements in reserve or	
	Days in full com- mission.	8 8 8 8 8 8
	Total main- tenance and operation.	\$6.29
	Repairs and alteration to ships, including equipage.	17, 688, 47, 687, 687, 687, 687, 687, 687, 687, 68
	Equipage.	810, 107.23 2, 1083.24 2, 1083.24 1, 288.29 1, 218.29 2, 218.
	Total operating expenses.	57, 288. 31, 348. 31, 348. 32, 43. 32, 43. 33, 43. 33, 43. 33, 43. 33, 43. 34, 43. 34, 43. 36, 43. 37, 43. 38, 43.
	Stores issued, including provisions.	24, 845, 845, 845, 845, 845, 845, 845, 84
Title C.	Miscellaneous expense, in- cluding com- muted rations.	# # # # # # # # # # # # # # # # # # #
	Accrued pay.	25, 46, 23
	Name of vessel.	DESTROYERS. Agron Ward Abbott Alden Allen Anthony Authony Authony Authony Authony Authony Authony Authony Babbitt Badger, George E Bagley Balger, George E Bagley Balger, George E Bagley Balger Bancott Banco
	No.	411.43 41

165, 904, NR 92 159, 202, 07 92 53, NB, 49 92	51K 40 225. K2	32, K22, 20	Į.	Si S	įŠ	541.69	; ;	3	069.12	3	ું ફે	38	ĝ	ä	8	25	=======================================	Ę	8	\$	8	86	450 54	77	742	131	072.71	612. 42	38	105.35	500.01	25	34, 445, 31 40
	1,041.91	88	5 %	38 8		: ;	≊ 9 8€ °	P.	334.96	016. 75	3 8	712.90	3. 3.	- S	-88	38 8	88	3 2	997.50	857.94	ଲ:	567. 11	32		120.90	690.05	111.82	22	88	3 9	8	888	23,067,06
19, 484, 60 1, 304, 16 1, 475, 87	35		1, 869. 67	3 6	38	ŧ	618.14	8	10, 979. 44	8	÷8	32	53	ន់	378	ġ;	761.85	1,001.05	į	3, 462. 41	ğ	9 730 91	1, 510 16	572.94	684.60	뛇	复	3,088 2,28	35	5,372,48	486	g	1. 490. 52
40, 440, 24 37, 374, 02 32, 200, 60	₹ ‡	32, 280, 45	38	ž	32	8	200	8	75.	ð.	727		92	<u>8</u>	:	हुं	Š	į	į	137	æ	888	Š	8	8	8	<u>8</u>	ğ	ş	Š	ž	췃	9.887.73
22, 352, 90 25, 473, 90	822	17, 225. 15	i §	Si S	<u>`</u>	377	35	9	ij	<u> </u>	ij	27	19	ž	<u>ج</u>	į.	3	9	8	115.	918	8	ğ	15, 784, 33	33.	នី	g	₹	516		649	8	3,618,85
20.502		451.06	179.08	535.65 -	132.52	311.70	1, 155. 97	55.03	257.00	154.36	27.75	149.20	35.38	40°.50	218, 28	22.60	2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55	+, 223. 80 180 48	415.82	246.86	112.00			192.00						524.81			149.20
24, 920, 01 24, 920, 01 25, 627, 72	312.	14, 384, 24	\$	2	į	₹	39.	3	556	7	38	32	9	Ş	23	3.5	3 / S	5	Ž	ξģ.	9 9	25	8	14, 033, 45	121.	8	125	ਲ਼ੁੱ	175	30, 129, 65	æ	967	6, 119, 68
Briev Buchaman Bulmor	Burnes, John Francis Burns,	Bush	, and	BASIN	Chandler	Chase	Chauncey		Claxton	Clemson	Colnian	Colhoun	onner	'onyngham	onverse	Corry	Cowell	Craven	(Tosby	Crowninshield	Cummings	Cushing	Dale	Dallas	Davis	De Long	Delphy	Dent	Dickerson	Dorsey	Downes	Doven	Duncan

1922—Continued. [First quarter]—Continued.

Name of vessel. Afcortued pay. Afcortued pay. Afcortued pay. Afcortued pay. Contains. Foundament pays. Contains. Equipage. Properations of pays. Provisions. <				Title C.			-				Status.	
DESTROYERA—continued. \$11,022.79 \$15,290.40 \$27,132.07 \$25,702.60 \$25,200.16	Š.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.		Total operating expenses.		Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.		Days out of com- mission.
Depart		DESTROYERS—continued.										
Edwards, John D. 23, 444, 62 444, 62 445, 83 445, 84 57, 777, 85 1, 854, 19 47, 88 60 15, 82, 80, 77 77, 84 1, 854, 19 14, 854	¥	Dyer	\$14,022.79	\$517.	\$12, 591. 49	\$27, 132, 07	\$3, 762, 95	8	\$34, 425, 17			
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1922 -- Continued. [First quartet] -- Continued.

: :	Status.	Operating With re- in dured Days out on: comple- of com- ments in mission. reserve or ordinary.					8	76			<u> </u>				8				82						92		_	
		Total main- tenance and Days in operation. full com- mission.		\$36,941.	40, 335, 33	42,430	7,286	23.	9 9 9 9	72 240	9,5	73, 110	3,5	75,123	35,481.	35,999.	90,718.	25,972.	66,925	2, 7		33,53	52,088	79,962	305	38, 252.	87 116	
		Repairs and alterations to alterations to ships, including equipage.		\$6.447.		33	1, 175	282		7.0	45, 540.	45, 437		228	130	2,351.	8,576.	1,313.	713.	200	282			36.265	305	626	42.998	
		Equipage		81.138	1,008.08	25, 30,	2,623		529.71	8	*, c	5,001.	9,518	4,744	188	402	35,34	F2		4	3,00	1,995	25, 562	1.130			1,812	
		Total operat- ing expenses.		\$29.387.	38, 786.61	5,7	74, 471.		35, 545, 97	70	20,470	23,040	3,5	35	35	33,245	31, 797.	23, 787.	8, 402 88	20,62	22,217	2,2	8	42,566	î	38.394.68	42 907	
:		Stores issued, including provisions.		\$11, 70%, 10	9, 476. 17	7,382.05	5.25.25		16, 252, 34		3,5	7,870.	15, 708	43,764	4,335	17,040	17, 178	6, 135.	86.86 86.86 86.86	21,130	35,025	15, 200	12,00	27,616		18, 514, 83	22, 456	
	Title C.	Miscellancous expense, in- cluding com- muted rations.		\$395.	189, 50	Cas	25.55		119.68	-	9.00	20.05	451	.	578	241	323	. 680	1,029.62	1,076.	3.5		412	574	5	105.00	347	
		Accrued pay.		\$17, 283, 63	29, 120, 94	10, 148, 71	25.55 25.55 25.55 25.55		19, 173. 95	3	16, 301, 85	įį	ŝ	Š	Ş	8	ž	흅.	26, 063, 95	ġ	35	į	٤	375		17, 474, 85	17, 473, 62	
		Name of vessel,	DESTROYERS continued.	Maddox	Mahan	Varens	Mason	Mayrant	Maury	McCall.	Mod hardan	Medicale	McDormut	McDonosil	McFarland	McKeen	McKee.	McLanahan	McCormick	MacDonough	Meade	Maradith	Mervine	Mevar	Monaghan	Montgomery	Moody	
		g Z		4165	715	* @	161	+0X31	9	X		4050	600	3	4237	900	\$	4284	223	2	177	3 5	222	622	\$	4121	123	

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D'ILLIANS	O. Labora	Charles	Palmer	Parker	Parrott	Fatterson.	Faulding.	Pauding, James K	T cost y	Percival	Desert	Deni	Dilleberre	Pone	Doelor	Proble	Preston W B	Desitor	Promitt	Districtor	Radford	Rameav	Rathburne	Reid	Reno	Ronshaw	Rouben, James	Kinggold	Kizal	Robinson	Rodgers	Dogge	Pourem	Seminary.	Sande	Satterles	Schenck	Schlev	Selfridge	Semmes	Sharkey	Shaw	Shirk	Shubrick
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1922—Continued. [First quarter]—Continued.

			Title C.							Status.	
Š	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to saips, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
i	DESTROYERS—continued.										
346		\$25, 276.02	\$135.	\$32, 200. 63	\$57,611.	8	\$5,506.77	3	85		
\$		15,501.09	55.78	16, 175, 03	3,8	1,559.80	ឆ្មុះ	91, 414. 80	60		:
Š	Sinclair	21, 119, 69	32.	12, 774, 95	34, 219	ġĠ	£.69.43	8	3		
1316	_	10, 385, 80	408	8,609.53	19,401.	7	55	8			
425		9,772,85	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	38,006,01	14, 123	ź.	285.0	38	S	 : :	:
18		16, 670.30	; \$	9,097.17	26, 195.	8	61.63	3	3		
8	_	28,182,23	167.	36, 293. 66	64,643	6, 772. 69	139.99	3	82		
4 173	Sproston	24, 409, 51	258	24, 188, 58	49,016.	283	4, 580.66	56	8		:
26		41,300.00		10, 11.00	180	7,004.81	3 5	33			8
8		.5	171.95	14, 198, 10	8	1,186.25	3	3			3
43	_	20,242,48	49 1.23	20,677.94	41, 411.65	1,667.62	4,361.98	47,471.25	:	-	:::::::::::::::::::::::::::::::::::::::
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38	Stribling	18	223, 12	30,411.63	38	5,855,72	9€	8	70		
\$		207	153.55	17,000.60	381	1,587.24	19, 149, 07	ğ			
250	_	3	3.	19,944.66	띯	4,935.81	87.75	8	85		:
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125	_	8	604. 75	27, 510. 55	క్ష	2, 280, 81	29, 713, 28	8			
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14,397, 14 331,29 7,920,33 23,648 600,25 647,73 647,74 647,74 70 33,55,79 647,248 34,544,43 647,74 70 34,544,43 647,74 70 34,544,43 647,74 70 34,544,43 647,74 70 34,544 647,74 70 34,544 70,544 647,74 70 34,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70,544 70 70,544 70,	Upshur, Abel P	ž		₹	ž		8	38, 097, 68		-
14,390,44 133,18 20,134.23 34,860,25 667.77 545,88 36,023.64 14,011.55 570,29 31,863.43 47,74.70 1,932.70 7,138.67 54,23.45 15,610.68 270,29 31,863.43 47,74.70 1,932.70 7,138.67 54,28.6 15,610.68 270,29 31,863.43 47,74.70 1,932.70 7,138.67 54,28.6 15,299.62 272,20 27,88.00 38,368.72 3,733.41 1,718.73 88,300.28 15,299.62 278,00 22,788.00 38,368.72 3,733.41 1,718.73 88,300.28 13,038.77 720,60 38,300.66 1,649.71 1,718.73 1,445.44 13,038.77 220,60 38,300.66 1,546.67 1,445.44 14,026.22 33,322.30 1,510.62 1,540.63 1,445.37 14,026.23 1,510.62 1,510.62 1,510.62 1,446.87 14,026.23 1,510.62 1,510.62 1,510.62 1,446.87 14,026.23 1,510.62 1,510.62 1,410.63 1,446.87 14,026.23 1,510.62 1,510.62 1,410.63 1,446.87 15,029.24 1,510.62 1,510.62 1,410.63 1,446.87 15,029.24 1,510.62 1,510.62 1,410.63 1,446.87 15,029.24 1,510.62 1,410.63 1,446.87 1,446.87 15,029.24 1,510.62 1,410.63 1,446.87 1,446.87 15,029.24 1,510.62 1,529.73 1,410.63 1,446.87 15,029.24 1,510.62 1,529.73 1,410.63 1,446.87 15,029.24 1,510.62 1,410.63 1,410.63 1,410.63 15,029.24 1,510.62 1,410.63 1,410.63 15,029.24 1,410.63 1,410.63 1,410.63 1,410.63 15,029.24 1,410.63 1,410.63 1,410.63 1,410.63 15,029.24 1,410.63 1,410.63 1,410.63 1,410.63 15,029.24 1,410.63 1,410.63 1,410.63 1,410.63 15,029.24 1,410.63 1,410.63 1,410.63 1,410.63 15,029.24 1,410.64 1,410.64 1,410.64 1,410.64 1,410.64 15,020.24 1,410.64 1,410.64 1,410.64 1,410.64 1,410.64 1,410.64 15,020.24 1,410.64	Wadsworth	E		8	648		18 127 30	42, 434, 43		
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33, 940, 64 472.25 37, 633, 94 60, 61. 54 12, 449, 71 1, 718.73 85, 300. 28 15, 290. 28 15, 290. 64, 123.87 27, 27, 27, 27, 27, 27, 27, 27, 27, 27	Warrington						8	80 88		_
1,0,000,04	Wasmith						2	8	:	
15, 299, 62 279, 10 22, 788, 00 38, 386, 72 3,078, 77 7,38, 92 41,485, 41 14, 910, 66 15, 123, 87 61,935, 60 13,40, 65 13,40	Waters	8		3	9	8	1 718 73	200.08		
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2.7, 410.00 2.7, 4	Welles			ġ	ġ	Ś	28.86	11, 100, 11		<u>:</u>
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3.032.00 2.04.00 2.05.10.	Whipple	†		8	‡ 72	1,656.63	10, 415, 40	4,54.5		:
11.308.77 521.50 18,951.00 132,511.30 1.294.77 7.70 19,975.31 13.308.77 710.68 6,913.01 13.408.65 11,502.20 19,975.31 1,002.08 4,973.11 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 4,1221.32 19,975.31 1,002.08 1,411.89 1,641.	Wickes	3		g	8	1,976,91	2	61, 197. 35		:
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33.322.20 138.89 1,510.02 34,973.11 1,692.03 .665.79 82 44,018.21 12.128.81 1,710.68 6 0.285.31 19,872.88 4,188.22 12,604.63 44,613.13 18,633.84 1,710.68 13,797.45 29,787.71 2,605.39 146.37 32,838.47 15.29 11.59 442.44 5,538.79 14,890.77 14,110.89 11.6	Williams.	ğ		913.	8	328 05	27.22	19, 375, 31		_:
14,026.22 14,622.44 25,732.88 4,185.52 12,694.63 4,613.13 24,121.22 12,126.83 1,717.10 68 6,026.35 19,787.10 2,202.38 1,717.10 27,558.81 1,136.77 2,136.84 1,177.20 27,558.81 1,136.24 5,536.70 14,136.94 1,177.20 27,558.81 1,136.24 5,536.70 14,380.73 1,640.89 1,641.85 1,641.	Williamson	33		510	E	1.602.03		36, 665, 79	8	-
12,128, 83 1,719, 68 6,026, 35 19,872, 86 4,221, 32 22, 19 24, 316, 37 31, 834, 47 1 2,906, 39 146, 37 31, 838, 47 1 1,506, 39 146, 37 31, 838, 47 1 1,506, 39 1,411,59 1,400, 11 1,400, 1	Winslow	8		នួ	8	4, 186, 52	12,694,63	45,613,13		
15,473.72 516.54 13,797.45 29,787.71 2,906.39 146.37 33,888.47 35.88.47 141.89 146.37 32,888.47 15.89 146.37 33,888.47 15.89 141	Wood	126		8	2	4.221.32	222 19	24,316,37		-
13,633.94 177.20 27,558.81 41,389.95 1411.59 7,480.11 50,261.65 15,38 13,411.59 7,480.11 50,261.65 15,881.77 13,401.09 531.51 7,714.39 21,644.99 226.24 84.42 27,722.65 226.24 26,24.24 26,	Woodbury	473		797	787	2, 905, 30	145.37	32, 838, 47		
13,633,94 177,20 27,538,81 41,389,95 1,411,59 7,480,11 50,381,65 1,411,59 1	Wooleav	•				25.28		3.5.26		_
8,911.59 442.44 5,538.70 14,800.73 16,641.85 15,841.77 77,811.47 13,641.85 15,841.77 77,811.47 13,641.09 531.51 7,742.84 16,281.07 11,888.73 846.42 22,722.84 28,642.77 722.42 16,284.39 46,281.07 11,888.89 780.45 531.51 76,244.39 46,281.07 11,888.89 780.45 531.10.89 53,111.69 780.89 128.33 53,1	Worden	٤		ď	3	1.41.50	٤	50.281.65		
30,088.44 84.28 47,106.77 77,804.77 1,988.73 7,94.77 79,773.87 73,804.71 1,988.73 7,94.77 79,773.87 73,804.71 1,988.73 79,774.89 7,773.87 73,804.71 1,988.73 7,74.39 7,773.87 73,804.74 772.42 1,524.39 46,291.07 11,389.81 780.48 83,805.39 83,805.39 73,804.89	Verborough	3 2		36	į	8 650 01	į	15 801.77	<u>:</u>	<u>:</u>
13, 401.00 531.51 7, 714.80 71 1, 300.10 1, 30	Volument	10		į	į	960.01	į	10,00		<u>:</u>
29, 774, 26 722, 42 16, 744, 39 21, 646, 99 172, 82, 84 24, 83, 174, 85 34, 82, 84, 84, 81, 74, 74, 84, 84, 84, 84, 84, 84, 84, 84, 84, 8	T MILIBILITY TO THE PROPERTY OF THE PROPERTY O	į		3	į	1,000,10	1	18, 113, 81		<u>:</u>
26,724.26 722.42 16,284.39 46,281.07 11,386.89 128.33 53,111.66 20 13.00.59 13.00.59 128.33 53,111.66	X oang	;		114	į	Š	35.5	27, 727, 65	:	:
26,024.26 420.54 21,862.64 48,317.44 3,066.89 128.33 52,111.66	Zane	į		Š	Ę	8	785.48	58, 365, 36	:	:
K 40K 904 K9	Zollin	ğ		Š	317.	ğ	128.33	52, 111. 66		<u>:</u>
20 - 480 - 584 - 5	Total	5, 495, 384, 52	264, 669, 52	6. 436. 532. 79	12, 196, 586, 83	1.340.270.32	1, 784, 846, 54	15.321.703.69		

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			Title C.			Donoise				Months i	Months in commission.	
o Z	Name of vessel.	Accrued pay.	Public vouchers (including commuted rations).	stores issued (including pro- visions and medical stores).	Total operating expenses.	Archairs and alterations to ships, includ- ing equipage.	Total maintenance and operation.	Tonnage.	Date of first commission.	Full commission.	Commission in reserve.	WWAI
1	COAST TORPEDO VESSELS.			:							:	ם ע
22222222222222222222222222222222222222	Bainbridge Barry Barry Dale Docatur Docatur Hopkins Hull Lawrence Macdonough Perry Perry Prixtun Whipple Whipple Worden Total	24, 942, 15 41, 942, 15 42, 347, 68, 68 43, 347, 14 44, 944, 27 42, 28, 28 43, 28, 28 44, 28, 28 45, 28, 28 47, 28, 28 48, 28, 68 48, 28, 58 48, 58, 58, 58, 58 48, 58, 58, 58, 58 48, 58, 58, 58, 58, 58, 58 48, 58, 58, 58, 58, 58, 58, 58, 58, 58, 5	20, 165, 17 366, 32 140, 63 201, 69 201, 69 201, 109 202, 109 203,	5.6 39.006 37.017 37.01	28, 416.73 71, 75.55 71, 75.55 71, 75.55 71, 75.55 71, 746.56 71, 746.57 71,	24 477. 2 28. 6 28	\$6,894.6 90,011.6 90,011.6 110,000.0 82,310.0 82,310.0 82,84.4 82,84.4 82,84.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 111,72.4 112,186.1 113,186.1 113,186.1 113,186.1 114,78.1 115,78.1 116,89.1 117,89.1 118,	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	Nov. 24, 1902 Nov. 29, 1902 Nov. 24, 1902 Nov. 24, 1903 Sept. 23, 1903 Apr. 14, 1903 Sept. 4, 1902 June 21, 1902 Sept. 11, 1902 Sept. 11, 1902 Occ. 31, 1902	22222	2222 : 21 2	

			Title C.			_	Panairs and				
Š.	Name of vessel.	Acerued pay.	Miscellancous expense, m- cluding com- muted rations.	Miscellancous Stores issued, expense, in- including pre- cluding com- visions and muted rations. medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	COAST TORPEDO VESSELS— DESTROYERS.		!								
100	Bainbridge		\$945. 83	뚌:	菱:		\$2, 202, 82	198	8	Nov. 24, 1902	
- 35	Dale		26.00	19,041.20	19, 107, 96	330.50	31, 462, 40	20,000,00	8	. 3	
90	Decatur		53.07	34, 198	25		1, 374. 85	S	8	6	_
90	Hopkins	-	566.51	2,981.	25		614.	뚌	804	S.	
33	Hull		2, 617. 73	 88.88	3,848,9	14, 584. 89	810.35	9	\$	R:	:
68	Macdonough (Macdonough)		215.91	2,5	2, 281. 70	18. 25	3, 35	8	38	بالم	
010	Paul Jones		50.95	, 517.	568.31	52	13.66	8	8	è	
=	Perry	-	97.19	4, 587.	4, 684, 82	윩	633.38	₹3	8	Ŧ,	
2 2	rrebie.			4 231	1,062,19	3, 286. 94	30.18	3 5	35	Dec 17, 1902	<u>:</u>
÷	Truxton	\$6,306,76		315	8	1. 522. 82	10.220.43	8	3	=	
015	Whipple	35, 943, 69	162.64	12, 899. 99	49, 006, 32	325.13	લ	333	433	<u>ٰۃ</u>	_;
910	Worden	16, 229. 85		755	8	1, 671. 16	88.48	743.	433	Ξ,	
	Total	58, 480.30	5, 658. 99	206, 350. 79	270, 490. 08	10,446.67	55, 830. 66	306, 875. 07			

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		Title C.			Repairs and				Months in commis- sion.	commis-
Name of vessel.	Accrued pay.	Public vouchers (including commuted rations).	Stores issued (including pro- visions and medical stores).	Total operat- ing expenses.	alterations to ships, includ- ing equipage.	Total maintenance and operation.	Tonnage.	Date of first commission.	Full commission.	Commis- sion in reserve.
COAST TORPEDO VESSELS.										
nbridge	\$44, 942.15 45, 300, 09 45, 387, 97 46, 821, 73 41, 964, 28 32, 931, 42 38, 931, 42	\$2, 166.17 396, 32 140.96 291.96 496.17 296.76 313.35 273.17	\$46,309,41 83,079,86 37,511,67 36,522,67 35,386,72 31,434,13 31,434,13 31,562,83 21,641,06	883, 416, 73 74, 735, 73 N1, 040, 39 X3, 746, 36 77, 767, 17 64, 572, 31 50, 810, 51	\$3, 477. 73 14, 151. 89 14, 151. 89 6, 284.60 32, 834.60 17, 738.60 14, 336.88	\$96,894,46 88,907,16 102,876,22 90,011.16 110,606,57 82,816,91 82,704,45	*******		22222	222
	205.52	392.69 729.90 806.90	23, 569, 80 47, 920, 05 42, 668, 63 43, 062, 74	36, 883, 50 100, 855, 47 87, 150, 98 90, 361, 18		72, 226, 09 132, 344, 37 111, 723, 79 119, 996, 12		Sept. 5, 1903 July 10, 1902 Sept. 4, 1902 June 21, 1902	102	2
	82, 630, 33 47, 630, 95 34, 536, 07	129,00 288,01 437,92 52,70	55, 245, 75 28, 483, 25 43, 710, 72 30, 726, 86	107, 808, 14 62, 702, 99 91, 838, 59 65, 315, 63		, 125, 186, 85 75, 951, 45 120, 098, 98 73, 103, 54		22.2.2	2 - 2	10 11
Manufacture of the same	659, 662, 47	7,214.32	590, 896. 44	1, 257, 773. 23	280, 053, 33	1, 537, 826. 56		*************		***************************************
The state of the s						1, 922, 283, 20		***************************************		and the

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Accrued pay. From Do VERSEIS- DESTROYERS.	=								
	Miscellaneous expense, m- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	Month, In com- mission.
	, ·								
	\$945. K3	\$33, 138. 84	\$34,084.67	\$129.	\$2, 202. K2		•	Nov. 24, 1902	
	00 86	_	11,614.20	+9x	38.63		•	:	
	::		34, 251. 21	706.00	1, 374. 85			; ⊙	
		_	3, 548, 17	:	514.71		•	ĸ	
	2,617.73		3, 44, 23		×10.35			중 :	
With Macdonough (Macdonough)		3,54,50	2,24,70	18.069.89	7, 145.36	2, 167. 99	₹	Sept. 14, 1903	
Paul Jones			568.31		13.66		·	<u>`</u>	
- Limit	97.19		4, 684, 82		533.38			4	
L'india			1, 062. 19		11,681.60			<u>=</u>	
		4,231.02	4, 231. 02		25. 78.			7	
50, 300. 76		41, 315. 36	47, 622. 12	1, 522. 72	10, 220, 43			Ξ	
E 112 11	5.6	12, 899, 99	49, 006. 32		2.02			Ξ,	
	s	4, 7.55. 93	20, 985, 78	_	¥.			Dec. 31, 1902	
14 (4) (4)	14 ASA 140	200, 330, 79	270, 490, 08	10, 445.67	55, 830. 66	306, 875. 07			: :

1922. [First quarter.]

		Title C.							Status.	
Name of vessel.	Accrued pay.	Miscellaneous Stores issued, expense, in-including commuted rations.	Stores issued, including provisions.	Total operating expenses.	Equipsge.	Ropairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full come comparison. In the come comparison comparison comparison.	Operating with reduced complements in reserve or	Days out of com- mission.
COAST TORPEDO VENSELS—DE-		:								
Barry Dale Proble						\$59.02 32.71 18.00	\$59.02 32.74 18.00	1 92	76 I	922
		Total				109. 76	109. 76			

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150 nor cont

													_	•									
Months in commis- sion.	Commission in reserve.				12		12	:			<u>:</u>	15			12		12	:::::::::::::::::::::::::::::::::::::::	:	:			
Months I	Full com- mission.							:		:	:	:					:	77	:				
	Date of first commission.		ct. 18, 1901	ine 10, 1901	Oct. 21, 1901	27,130	ine 16, 1900	ct. 27, 1902	pt. 23, 1897	ar. 22, 1899	ug. 7, 1897	ny 0, 1993	av 1,1899	1898	ay 11, 1898	Apr. 2, 1898	pt. 21, 1905	ar. 28, 1898	me 9,1902	n. 7,1904			
	Tonnage. D		_		175			-	_	_		-				_	_	_	-	_			<u>:-</u>
	Total mainte- nance and operation.		£12 830.57	9,932.81	5,919.51	7,79	5,448.43	5, 386. 66	6, 452. 70	30, 392, 05	700.00	4 905 00	2, 563, 36	118	10,381.10	14, 480. 47	15, 469, 24	86.38	6, 744. 14	<u>1</u> 28	152 707. 42	38, 176.86	190, 884. 28
-	repairs sind alterations to ships, includ- ing equipage.		£12 K20 57	•	1,358.55																86.519.96		
1	Total operating expenses.			<u>.</u>	4, 560.96										1,358.49	3,466.21	325.00	715.98	200.74	545.23	66 187.46	1	
	Stores issued (including provisions and medical stores).			\$4, 573. 14	2, 445. 72	1 957 42									1,358.	1, 392, 71	38	77.7		545.23	32 103 89		
Title C.	Public voucher (including commuted rations).				211.80 31.80	91.00	35.00	40.00	2, 162, 42		1/1. 20.00 2	262.98	558.64			2,073.50	9.5	5.5	35.00		8 197 89		
	Accrued pay.			\$3,882,20	2, 104. 24	4, 401. 41				17, 492.03											25.885.68	1	
	Name of vessel.	TORPEDO BOATY.	Baglev	Balley	Barney	Blakelv	Dahlgren	De Long	Dupont	Farragut	Foote	Goldshorough	Mackenzie	Manley (old).	Morris	Rodgers	Shubrick	Somers	Thornton	Tingey	Total	Equipage	Total
	o Z		719	8	85	12	14	8	2	5	118	8	210	8	7	23	\$	33	3	118			

1921.

191,83 146 No. 191,83 146 No. 196,83 146 No. 196,83 No.	Accrued pay. Ac	Repairs and	Date of first commission. Apr. 7, 1897 Apr. 2, 1897 Apr. 2, 1897 May 11, 1899 Oct. 21, 1901 Oct. 21, 1901	Solution Appi Salution Name Appi Nam	701- 103/c- 142 163 163 286 286 286 286 286 286 286 286 286 286	Total maintenaure and operation. Lion. 8148.36 8389.76 81.62 191.33 106.33 11.157.02 244.82 87.66 27.88 1.88		Equipage. \$19.00 \$.00	Total operating expenses. \$30,00 \$9.60 170.10 170.10 165.40		Miscellaneaus expense, in- clading com- rauted rations.	Acerued pay.	me of vesed. RPEDO BOATS- PEDO BOATS.
86.27 86.27 63.09 43.09 43.09	A 12	Accrued pay. expense, fin- including pro- expenses. Control pay. expenses, fin- including pro- expenses. Control pay. Equipage. Control pay. expenses. Control pay. Equipage. Control p				86.27 43.09	48. 27 43. 09		125	53			
191.33 146 Ju		Miscelaneous Stores issued, operating Equipage. Total alterations maintenance Ton-cxpense, in- including pro- expenses, cluding com- visions and relating com- visions and relating com- reducing com-	3338	Apr. 7 Apr. 2 Sept. 23	77 22 29 29 29 29 29 29 29 29 29 29 29 29	\$149.36 389.76 61.62	\$119.36 361, 16 56.62 191.33	\$19.00	\$30.00	09.68	\$30.00		COAST TORPEDO BOATS- TORPEDO BOATS.

	Days out of com- mission.	83
Status.	Operating vith re- Days in duced Days out full com- mission. ments in mission.	
	Days in full com- mission.	
	Total main- tenance and operation.	\$24.00
1	Repairs and alterations to ships, including equipage.	\$24.00
:	Equipage.	
	Accrued pay. cluding com- muted rations.	OGENE
. :	Stores issued, including provisions.	
Title C.	Miscellaneous expense, in- cluding com- muted rations.	
	Accrued pay.	
	Name of vessel.	COA T TORFEDO BOAT — TORFEDO 4507 No.7.
		4507

SUBMARINES.

Mr. Kelley. How many submarines are carried in the 1916 table! Mr. REED. Forty-one.

Admiral POTTER. Not counting those building.

Mr. Kelley. I had a notion we had more than that.

Admiral Potter. There were a good many building. There were 34 building at that time. The total number, built and building. was 75.

Mr. Kelley. On page 36 of the report for 1916 the number of submarines is given as 76, does that include the number building!
Mr. Reed. Yes, sir; that includes those building.

Mr. Kelley. How many were built?

Mr. Reed. There were 42 in commission and 33 building.

Mr. Kelley. Forty-two in full commission?

Mr. REED. Yes, sir.

Mr. Kelley. What was the total expense for the maintenance and operation of the submarines in 1916?

Admiral POTTER. In 1916, \$1,576,616.78.

Mr. Kelley. How many have you carried on your list for 1921?

Mr. REED. There are 126 that were in commission at some time during the year, but not throughout the entire year. There is number still building.

Mr. Kelley. This recapitulation gives the number as 97. undoubtedly the number being operated, excluding in this recapital lation those that are building. We must be careful not to get the two things confused.

Col. ROOSEVELT. They come and go. One hundred and twenty six would represent the total number that were operated at any time

during the year.

Mr. Kelley. I want the total expense of operating and maintaining the submarines. I do not care at this time to inquire about the length of time each one was being operated.

Admiral Potter. There were charges against 126.

Mr. Kelley. One hundred and twenty-six are included in the table as being operated in whole or in part during the year 1921? Admiral Potter. Yes, sir.

Mr. Reed. Either being operated or building. Some charge

have been placed against them for assembling equipage.

Mr. Kelley. We should not go into the building here at all.

Mr. REED. That is true.

Mr. Kelley. What is the total expense for maintenance an operation of submarines for 1921?

Admiral Potter. \$9,341,953.23.

Mr. Kelley. That still includes a little amount for building?

Mr. REED. A few thousand dollars for equipage that has been assembled for the ships that are building.

Mr. Kelley. If it is not a considerable amount, it will not misles us at all.

Mr. REED. It is around four or five hundred dollars per ship.

Mr. Kelley. Do you happen to remember just how many su marines we have completed right now? I mean everything that ca be used.

Col. ROOSEVELT. That is a figure that I do not carry with me, but here are 81 that I consider of value.

Mr. Kelley. Whatever number we have in excess of that are

ractically obsolete?

Col. ROOSEVELT. The ones we have in excess of that number I

onsider very second rate.

- Mr. Kelley. You would not want to spend much money on them? Col. ROOSEVELT. No, sir. I think I can give you that figure. Doe hundred and twenty-six is the total number, and of that number we are going to scrap 18. There are 27 of the second grade that we re not prepared to scrap, because they may be useful for coast-befense purposes, but they would not be useful for long operations. Lighty-one of them are all right.

Mr. Kelley. I think I asked you to put the tables in at this point.

Admiral Potter. Yes, sir.

Mr. Kelley. But I did not ask you to give the submarine figures

Admiral POTTER. The total expenditures for submarines during e first quarter of 1922 was \$1,585,930.78.

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Equipage						394, 154, 20			:	
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No.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	SUBMARINES.						OF LOCA	04 1 000			
_	A-3			\$2,940.43	\$2,940.43	\$30.31	\$304. th	2,970.77		May 28, 1903	12
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-		\$10,036.81	\$116.28	11,729,74	21,882.83	17,334.01	5,714.68	44, 931, 52	145	Oct. 18, 1903	
	B.5.			5, 595, 73	5, 595, 73	278.10	116.90	5,990.73		Dec. 3, 1907	
-						21.75	148 66	21.75		Nov. 23, 1909	
_	D-1	7,978.31		6,529.23	14,507.54	682, 89	1,913.67	17, 104, 10	288	do	
	D-2 D-3	20, 025, 84		5,612,65	25, 638, 49	1,781,72	1,888.88	27, 447, 97	288	Sept. 8, 1910	127
-	E-1.	27, 633. 82		10,824.31	38, 458, 13	28, 430, 23	2,341.90	69, 230, 26	287	Feb. 14, 1912	
_		12, 040, 03			1.61	11.100,00	0,400,00	1.61			
_	F-2	31,934.66	3.20	×	42, 240, 77	5, 834, 04	89, 779, 54	137, 854, 35	330	June 25, 1912	
-	1-0	3,012,27		39.74	3,052.01	39.74	18, 590. 35	21, 602, 62	400	Oct. 28, 1912	
-	N-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	9,870.08	47.10	4,042,80	13,959.98	654.30	519.20	15, 133, 48	393	Mar. 22, 1915	
-		3, 168, 98		1.61	3,170.59	128, 52		3, 299. 11		Dec. 1, 1913	
40	20.00	36, 749, 32	208.80	15,840,91	65, 549, 60	1,051.35	24, 608, 90	90, 656, 40	358	Jan. 14, 1914	
	T	48, 812, 21		15,141.53	63, 953. 74	1,998,39	34, 122, 08	100,074,21		Oct. 24, 1918	
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(50 Sept. 20, 1916	May 4	Feb. 17.	Dec. 7.	Dec. 7,	Aug. 30,	Aug. 4,	Aug. 2,	Aug. 15,	Feb. 16,	Sept. 26,		do	June 15,	June 14,	Aug. 9.	June 15.	Nov. 5.	Oct. 19,	June 13.	May 28	June 8	June 12	July 4,	, I	11114	Č	0 19,	, o	Nov 27	Č	A110 27	V 116	Dec. 16,	Jan 24	Anr. 17	Mar 28	Anr 15	May	June 12	Inly 21	8	A 10	Sant	Sept. 23	Oct. 17	Dec.
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Title C.	Miscellaneous expense, in- cluding com- muted rations.				8208 36	200	72.00				4.67	۲			6.81				46.00						
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			Title C.							Status.	
o Ž	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations for ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
	SUBMARINES—continued.										
2005		\$9,361.83		\$2,044.59			\$176.56	\$11,850.48			
8 95 8 95 8 95 8 95	K-13 R-19	9, 290. 16 8, 728. 12		2, 107. 9	10,954,26	278.88	2 2 3 3 3 3	12,311.01			
2002	R-20	8,307.90		1,821.41			4, 976. 55	15,674			
	R-21 R-22	5, 334, 12	\$242. 16	12,819,07			27. 279. 36	45,676.06			
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5102		8, 53		5,623.52				120.52			
5103	R-26	6,913.30		7,009.01			80.73	14,078.07		:	
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5112	2-50	14, 441, 78		6,842.60	21,284,38	1,521.42	150.80	22,965,60			
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5114		12, 181, 18		8,965.18	21, 136, 36		27.00	21, 536, 15	:		::
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SUBMARINE CHASERS.

Mr. Kelley. Now we come to the submarine chasers. How many of those have you on your list for 1921?

Mr. Reed. The statement here shows 83 in commission during a

Mr. REED. The statement here shows 83 in commission during part of the year.

Mr. Kelley. During 1921?

Mr. Reed. Yes; although there are others on which charges have been made, either delayed bills coming in for prior years or some miscellaneous work on them.

Mr. Kelley. How much did we spend for the maintenance and operation of the submarine chasers in 1921?

Admiral POTTER. We spent \$1,531,686.35.

Mr. Kelley. In the table for 1922 how many are included? Admiral Potter. From a hasty glance it looks to be 132.

Mr. Kelley. That would be more than you had last year.

Mr. Reed. Some of those are not in commission.

Admiral POTTER. These are those against which charges have been made.

Mr. Kelley. What is the total for the quarter? Admiral Potter. The total is \$203,945.27.

Mr. Kelley. There are a few of these that seem to have quite large sums set off against them in your report for 1921. Let us look into that list a little and see whether we can ascertain why those sums are so large. These boats cost, as I recollect, about \$70,000.

Mr. REED. They range from \$40,000 to about \$110,000; some of the larger ones cost about \$110,000, I think, including the engines.

Mr. Kelley. On page 185 of Ships' Data the contract price of a subchaser is put down at \$70,900, and they run along at about that, running up to as high as \$74,000. That is according to page 185 of Ships' Data.

Admiral POTTER. For 1921?

Mr. Kelley. Yes. Take No. 96. It seems that a ship costing \$70,000 is a pretty expensive thing if it costs \$57,000 to run it a year, although I am not much of a ship operator.

Admiral POTTER. The big item of that is pay, \$22,000.

Mr. Kelley. How does that come about?

Admiral POTTER. I do not know, sir. Admiral Coontz will have to tell you about that.

Mr. REED. It would depend on the duty performed.

Mr. Kelley. You will notice that No. 159 cost \$23,115 and the pay there is very small. But that is quite a large sum of money for those little boats.

Admiral POTTER. They evidently did a lot of cruising for some reason.

Mr. Kelley. Who controls these boats?

Admiral POTTER. They are under the general direction of the Chief of Operations.

Mr. Kelley. How can he tell how much they are sailing?

Admiral POTTER. They are directly under the respective district commandants.

Col. ROOSEVELT. Perhaps I can give you something there which will help.

Mr. Kelley. Possibly we had better leave it until Admiral Coontz here, so that we will not go over it twice. The Secretary, yourself, and Admiral Coontz are responsible for the running of these boats and possibly that is the time to take it up rather than with the nanciers; these men are the financiers and bookkeepers, and good nes. There is another one, No. 273, and \$19,383 is quite a large um for that little boat.

Admiral POTTER. The same answer must be made as to that; it

epends on its duty.

Mr. Kelley. Here is another one, No. 277, \$63,636.

Mr. REED. In that case there was \$46,000 for repairs and altera-

Mr. Kelley. Why would they repair a little boat like that and but that much money on it, a boat that cost only \$70,000? Who

letermines whether a boat shall be repaired or not?

Admiral POTTER. Well, the final authority, of course, would be the Navy Department itself; the estimates are made locally by the local construction officers and by the local engineering officers under the supervision of the commandant of the district. They make a report.

Mr. Kelley. Here are numbers 277 and 278, one costing \$36,636 and the other \$67,142; the repairs on one amounted to \$46,333 and the repairs on the other amounted to \$47,158. You do not know

why those repairs were made on these little boats?

Admiral POTTER. No, sir.

Mr. Kelley. Here is one, No. 298.

Admiral Potter. \$71,023.45, of which \$44,236.03 is represented by repairs.

Mr. Kelley. And No. 299?

Admiral POTIER. \$53,152, and repairs, \$31,487.

Mr. Kelley. And No. 305?

Col. Roosevelt: I do not know what the repairs were in 1921, but they are out of commission now.

Mr. Keliey. Are they all cut now? Col. Roosevelt. 298 and 299 are out.

Mr. Kelley. After putting that much money on them you ought to let them run awhile.

Col. ROOSEVELT. I do not know about that; I can not tell.

Mr. Kelley. How much were the repairs on No. 306?

Admiral POTTER. \$39,837.

Mr. OLIVER. Will your questions elicit the same information for the

fiscal year 1922?

Mr. Kelley. Yes; the table will follow right along, but I was curious about these amounts, and I am putting them into the record so that they will be directly called to somebody's attention. Here is No. 338.

Admiral POTIER. The total for No. 338 is \$54,211; the repairs, towever, are very small, \$310.74. Most of that amount is represented

a stores issued.

Col. RCOSEVELT. She is at Constantinople; she is for sale but we

an not find anybody to buy her.

Mr. REED. It may be that she also carries the pay accounts of cerin personnel that may be ashore, which would make that amount ppear quite large.

Mr. Kelley. That must be so with so large an amount for pay. \$20,000. They do not carry over 20 men, do they?

Mr. REED. They carry a very small crew, as a rule.

Admiral POTTER. That is substantiated by the stores issued, including provisions, which you see are \$30,438. So undoubtedly they are carrying a lot of accounts.

Mr. Kelley. No. 444. Admiral Potter. The total amount is \$47,880.

Mr. Kelley. That is for 1921?

Admiral Potter. Yes, sir; and the repairs are \$2,346. The large item is stores, including provisions, \$34,008.

Ccl. Roosevelt. She is working down at Santo Domingo.

Mr. Kelley. I am not sure that "working" is the right word for these boats. Give us the total for the first three months of 1922 as to some of these boats where the amounts run so high.

Admiral POTTER. The total for the first three months of 1922 is

\$203,945.27.

Mr. Kelley. If you multiply that by four?

Admiral POTTER. That is \$812,000.

Mr. Kelley. Considering the reduced price of gasoline it looks as though they used as much as last year.

Col. ROOSEVELT. But they are going down.

Mr. Kelley. Since the first quarter?

Col. ROOSEVELT. Very much. You see, many of these will have gone out of commission; we are trying to sell a lot of them and we are only planning to have 49 at this moment.

Admiral Potter. Do you want the amounts as to some of the

vessels you have mentioned?

Mr. Kelley. Yes. Let us take No. 96.

Admiral Potter. \$8,639 for the first three months of 1922.

Col. ROOSEVELT. She is at Constantinople and she is for sale, but we can not get any bids for her.

Mr. Kelley. That is a pretty big upkeep for a ship that cost only

\$70,000.

Col. ROOSEVELT. It is, but, of course, it is-

Mr. Kelley (interposing). In a year's time, you see, it eats up half its value.

Col. ROOSEVELT. But it is a question of substituting something else for her, and we have practically gotten now where we will take

Mr. Kelley. In a good many ways it is like Sherman's answer

with reference to the resumption of specie payments.

Col. ROOSEVELT. What was that?

Mr. Kelley. The way to resume was to resume, and the way to take these out is to just take them out.

Col. ROOSEVELT. That will be done as fast as possible.

Mr. Kelley. At this point put in the full table.

Admiral Potter. Very well.

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			Title G.				Repairs and					
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34, 584, 28 24, 584, 28 28, 584, 58	74.79 41.67	39.98	4,818,59	2, 783. 44	6. 1 0		1,039.15				8,306.45	584.75					8.16			S Z		8	810				
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		Title C.	•			Repairs and				
No. Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Miscellaneous Stores issued, expense, in- including pro- cluding com- visions and muted rations. medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage,	Date of first commission.	Months in com- mission.
SUBMARINE CHASERS—Contd.										
13 No. 143		\$330.00	\$9%5.91	=	90	\$64.78	\$6,946.85	0.	Nov. 20, 191	
ò			6, 500. 80	•		465, 17	7, 238, 33	11	Mar. 30, 1918	7
ŝ	. \$ K31.60	146.00	3, 758, 52	•		2, 203, 71	7,306.47		Mar. 13, 191	
5647 No. 147			2 622 22	2 622.22			9 692 22		Dec 13 1917	
Ż			69	•		21.60	91.12		do do	
69 No. 149			1,042,81	_	1,23	34, 56	1,078,60	11	Nov. 30, 1917	
50 No. 150	-		1, 136. 53	_		30.24	1, 166. 77		Jan. 15, 1918	*
51 No. 151	<u>:</u>		38.57		*************	38, 21	74.78		do	
22 No. 152	:	<u>:</u>	25.50				994 05		Dec. 24, 1917	
No. 154		8	10, 187, 13	=	1,105,49	NII. NO	13, 302, 42		Feb. 4, 1918	
55 No. 155		_	25.35	i		N69, 22	1,023.61		15	
56 No. 156		:	287.55		*******	7,096.78	7,374.33		Ξ,	*
57 No. 157	:				,		2,066.28		00	
28 No. 158	i	56			c,	231.70	9,340.44			
NO. 138				4		1, 354, 67	23, 115, 79		Jan. 15, 1918	
34 No. 164			376. 79	40x.22	8	778.71	1, 184, 93		Mar. 23 1918	7
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86 No. 166		. 43.75		43.75	. 106.40	ericine comme	150.15	11	do	
67 No. 167	:	-			12,39	***************************************	12, 39		Apr. 8, 191	
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72 No. 17c	-		, o,	, 141		1 557 65	1,806.85		Oct. 81, 191	
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22 No. 182				200		476.68	677.99		May 6 1018	-
88 No. 188			1.38	-			1.35		Apr. 27 1918	
94 No. 184		_	1,253.24	-i			1, 293, 24		qo	-
85 No. 185.			1,203.86	1, 208.	***************************************	9,100.90	10,313.75		Aug. 27, 1918	н
No. 186				617.		180.69	797.96		do	******
				1.063			1,053,79		do	*******

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	77 Apr. 25, 1918 77 do	77 May 16, 1918 77 May 18, 1918 77 Nov. 28, 1917	Mar. Dec. 15, Tobe: 24, 1, 5	<u> </u>	77 Dec. 5, 1917 77 Oct. 27, 1917 77 Dec. 10, 1917	, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	do do Mar 2,		Mar. 20, Jan. 17, May 1,
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Equipage.		Total	
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Mar. 25, 1918 Apr. 13, 1918		Apr. 29, 1918	A	T'		EG.	18	do	00	Dec. 1, 191	Jan. 8, 191	Dec. 5, 191	Dec. 13, 1918	dodo	Oct. 20, 1917	op	Mar 13 1918	do	Mar 4 1918	Apr. 18, 191	May 6, 191	do.	Feb. 16, 1918	Mar. 22 191	Mar. 15, 1918	QQ.	Mar. 23, 1918	MAR. 40, 181	: .	Jan. 8, 1918 Mar. 2, 1918
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21, 356, 30 22, 180, 35 424, 38		\$ \$\$	88	\$ 2	\$	3	18	8	304.42	18, 197, 21	88.8	1. 520. 52	871.41	2,107.27	3,374.47	457.61	8,902,83	1,847.42	1,102.18	. 8. 8.	1,973.14	54,211.00	크음	26,850,16	52	8	20.00	412.52	1,673.01	212.07
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8, 196, 88 88, 82 88, 88	13, 796, 25		E		33. 55.					12, 499, 14	Яį	1.138.38	780.44	259.71	1,847.08	81.14	28.22	1,629.80	1 565 13	46.80	1,407.63	30, 438. 50	≓ş	14.045.06	88	38.06	3 5	47.28	1,000.80	3. 3. 3. 3. 3. 3.
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	NAV	Y DEPARTMENT APPROPRIATION BILL, 1923.
	Months in com- mission.	
	Date of first commission.	Mar. 20, 1918 Mar. 2, 1918 Mar. 12, 1918 Apr. 8, 1919 Feb. 11, 1919 Feb. 3, 1919 Dec. 21, 1918 Jan. 13, 1919 Jan. 14, 1918 Jan. 15, 1919 Jan. 15, 1919 Jan. 15, 1919
	Ton- nage.	3 22 23 23 23 23 23 23 2
	Total maintenance and opera- tion.	######################################
Repairs and	alferations to ships, including equipage.	9.62.56 6.648 9.648 1.710.72 1.710.72 1.710.72 1.710.72 1.710.72 1.710.72 1.710.72 1.710.73 1
	Equipage.	25.25 26.25 27.75 26.25 27.75 26.25 27.75 27
	Total operating expenses.	88 88 88 88 88 88 88 88 88 88 88 88 88
	Stores issued, including pro- visions and medical stores.	58.88 28.14.1 28.15.11.10.80 11.00
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$145.00 448.68 105.00 2,038.87 2,038.87 12.00 12.00 13.21 13.21
	Accrued pay.	95.777.8
	Name of vessel.	SUPMARINE CHANGES—Could. No. 354 No. 554 No. 554 No. 554 No. 556 No. 556 No. 556 No. 556 No. 410 No. 410 No. 411 No. 411 No. 412 No. 412 No. 413 No. 413 No. 414 No. 415 No. 415 No. 416 No. 416 No. 417 No. 416 No. 416 No. 416 No. 417 No. 416 No. 416 No. 416 No. 416 No. 417 No. 416 No. 417 No. 416 No. 417 No. 417 No. 417 No. 418 No.
	, o	5855 5855 5855 5855 5856 5856 5866 5866

22			Days out of com- mission.	22222 2 22222
Aug. 25, 1919 do.		Status.1	Operating with reduced D comple comple ments in n reserve or ordinary.	
7.1 Au			Days in full com- mission.	
35, 430, 15 47, 890, 36 10, 971, 12 1, 531, 686, 35			Total maintenance and operation.	22
330,70			Repairs and alteration to ships, including equipage.	256, 08
3,066,39			Едпіраде.	758 248 278 278 278 288 348 3848
34, 197. 76 43, 478. 24 10, 971. 12 1, 025, 924. 94	1922. [First quarter.]		Total operating expenses.	28 28 28 28 28 28 28 28 28 28 28 28 28 3 28 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
26, 006, 75 34, 008, 39 10, 971, 12 713, 494, 65	[Firs		Stores issued, including provisions.	\$28.56 \$7.73 \$1.04 \$8.20 \$4.066.53 \$4.066.73 \$3.291.39
26. 68		Title C.	Miscellaneous expense, in- cluding com- muted rations.	83. 678. 30 53. 00 7. 22 81. 3. 201. 30 536. 60 6. 601. 00 6.32 91. 30 6.32 91
8, 178, 29 9, 443, 17 289, 885, 81			Accrued pay.	
No. 444 No. 444 Submarine chaser, out of commission. Total			Name of vessel.	SUBMARINE CHASERS. NO. 46 NO. 55 NO. 55 NO. 55 NO. 55 NO. 68 NO. 68 NO. 72 NO. 72 NO. 73
31			, o N	5501 5508 5540 5541 5551 5553 5553 5553 5553 5563 5563 556

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	Days out of com- mission.	888888 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Status.	Operating with reduced complements in reserve or ordinary.	
	Days in full com- mission.	98
	Total maintenance and operation.	2, 539, 539, 539, 539, 539, 539, 539, 539
	Repairs and alterations for ships, including equipage.	\$121.16 \$121.16 \$1,151.88 1,151.88 47.17 176.83 \$0.00 \$0.0
	Equipage.	\$4.50 1,545.75 1,545.76 4.97 1,963.97 22.54 14.50 165.88 31.49 31.49 31.49
	Total operating expenses.	87, 457. 40 1, 553. 50 1, 719.05.86 1, 719.0
	Stores issued, including provisions.	#83, 9633, 21 #83, 9633, 22 #70, 28 #70, 28
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$91.20 520.00 107.00 1,602.00
	Accrued pay.	\$3,554.19 729.00 469.15 544.37
	Name of vessel.	SUBMARINE CHASERS—Contd. No. 74 No. 95 No. 95 No. 98 No. 98 No. 108 No. 108 No. 118
	No.	5574 5586 5586 5586 5586 5586 5586 5687 5687

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	200.08	3,368.58	52.15	250.20	1,038.25	500.00	9.60	13.25	38	2,327,41	2,383.06	3,300.30	1,257.67	3,441.07	3,18	680.50	120.71	10.20	127.74	4,544.92	5 250 50	3, 521. 46	3,797.81	2,710,46	7, 609.26	\$ 8 1	1 774 97	3, 730. 66	36	88.	791.84 -
500.00	209.00	60.83	52.15	76.0 4	2.90	509.00	509.00	3 3	36	3	2,237.80	25.00	88.38	802 94	199.64	11.50		10.25	20.48		436.5	87.00	1, 133.45	3.11	1, 450.24			739. 17	Soo on	00.500	620.53
3		1,937.96		55.50		246.20		13.25	:	378.12	03 69	1 90 53	,						4.10	3,	6.31	100.43	:	550.00	27.68	:	1 771 51	182.00		80.00	
79.19.1	. 38 . 38	1,056.34 1,430.62		465.20	164, 19	1,184.01			-	1.949.29	145.25	1,525.15	1,221.41	3,441.07	3,90,50	669.00	120.71	2.50	83.18	4, 438.19	208.01	3,325.08	2, 664.36	2, 157, 35	6, 134, 34	25 188	. 6	2,818,48	₹.	399.60	171. 41 -
2	5.38	1,051.34		465.20	164.19	1, 184.01				949.29	145.25	759.82	1, 175. 41	1,559.33	901.00		120.71	2.5	63.18	88.8	305.01	457.52	591.08	706.50	3,373.94	396.38	. 6	1, 697.98		399.60	171.41
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											9 696 68	7,020-00	46.00	1,881.74	2,124.20	669.00				3, 685. 81	9 010 55	2,867.51	2,073.28	1. 450. 85	2, 760. 40						- · · · · · · · · · · · · · · · · · · ·
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1922 - Continued.

	Days out of com- mission.		28 28	::8	38 : : : : : : : : : : : : : : : : : : :	\$	
Status.	Operating with reduced complements in reserve or ordinary.						
	Days in full com- mission.						
	Total main- tenance and operation.		84, 124, 68 9, 416, 93 4, 881, 10 4, 572, 71 . 80 1, 00	7, 335.76 9, 359.41	3,650,43 3,650,43 332,18 143,24 2,119,81	4,335,13 1,916,55 1,916,155 206,09 4,048,99 4,288,64	203, 945. 27
	Repairs and alterations for sabips, including equipage.		81, 306, 94 181, 35 248, 83	706.08	2, 119.81	812.39 812.39 617.23 11.40	34, 016. 74
	Equipage.		\$623. % 56. 19 145.00 1. 00	1, 281. 87	580.43	244.80	20, 444. 64
Total operat- ing expenses.			82, 193, 85 9, 357, 74 4, 699, 75 4, 178, 88	16. 12 5, 347. 81 8, 984. 39	3,070,00	3, 277.92 1, 720.94 172.92 28.39 4, 08.89 4, 28.89	140, 483. 80
	Stores issued, including provisions.		52, 193. R5 5, 564. 45 1, 919. 54 1, 518. 09	16. 12 2, 958. 20 7, 312. 89	2, 903, 50 332, 18 6, 88	963.67 1,720.92 1720.92 26.72 26.89 6.99	85, 663. 33
Title C.	Miscellaneous expense, including commuted rations.		2	2, 349, 61	166.50	30.00	7,418.48
	Accrued pay.		\$3, 732.46 2, 740.21 2, 660.79	1, 550.68	332.18	2, 284, 27 3, 974, 07 4, 208, 04	56, 402. 08
Name of vessel.		SUBMARINE CHASERS COULD.	No. 330 No. 338 No. 338 No. 341 No. 341 No. 344 Vo. 335		No. 419 No. 424 No. 425 No. 426 No. 426	No 428 No 438 No 440 No 441 No 441	Total
, o Z			88888888888888888888888888888888888888	482	825.50	######################################	

EAGLE BOATS.

Kelley. Now we go to the Eagle boats. How much did the boats cost for upkeep in 1921?

niral Potter. In 1921, for 60 Eagle boats, \$4,280,343.92.

Kelley. There are 60 in all?

niral Potter. Yes, sir.

Kelley. What is the total for the first three months of 1922? miral Potter. \$1,012,848.11.

Kelley. And if you multiply that by 4? miral POTTER. That would be \$4,049,000.

Kelley. That would indicate a larger use of the Eagle boats last year, with the reduced price of fuel.

miral POTTER. Assuming that was done for the rest of the year. Kelley. Assuming that during the rest of the year they went rd at the same rate.

miral POTTER. Yes.
. ROOSEVELT. But there is not the same number of these boats s date; we either sell them or put them out of commission.

Kelley. I notice one you have here, No. 33. Is that one that d as a sort of lodging house?

REED. Yes, sir; she is at the submarine base at Hampton

Kelley. And the same thing is true of the others, where the seem so excessive?

No. 31 is used at Coco Solo, and another miral Potter. Yes. Vo. 17, is at Hampton Roads, and the same thing applies.

Kelley. Take No. 11; that is in ordinary service, is it? . ROOSEVELT. No. 11 is in the same situation as No. 31; she is ty with the submarines at San Pedro.

Kelley. What is she doing there?

. ROOSEVELT. She is a sort of a houseboat, as I recall.

niral Potter. Probably she carries the accounts of some others. Kelley. It is not so much greater than some of the others: ıy is only \$13,000.

REED. In the case of No. 17, No. 31, and No. 33, they are the n ships; they are assigned to the stations, and the accounts of rsonnel are carried.

Kelley. At Coco Solo and New London?

REED. Yes, sir; but these others only carry the accounts of ews themselves.

Kelley. The accounts of these particular ships?

REED. Yes, sir.

ROOSEVELT. I do not know how the accounts are kept but she ng some work.
REED. At Coco Solo—No. 31—the amount, including pay, is

00, while the others run \$9,000, \$12,000, and \$13,000.

Kelley. \$39,033.29 appears to be the total maintenance of

ROOSEVELT. She is the group flagship at Portsmouth.

Kelley. The total spent on these Eagle boats in the first r was \$1,012,848.11?

ural Potter. Yes, sir.

KELLEY. At this point put in these tables.

iral Potter. Very well.

			Title C.				Repairs and	F			
No.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	naintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	EAGLE BOATS.										
5301	No. 1	\$15, 116. 27	\$273.2% 27.10	\$17,728.76	35	\$K32.28	\$773.26 855.12	88	55	Oct. 28, 1918 Nov. 7, 1918	12
5305 405	Z - CZ	42, 570. 26	2,754.33	1, 208, 72	ន្តន	210.08	729.19	88	88	`= ` =`	222
3 5 5 5 5 5 5 6 5 5	No. 6. No. 7.	28, 360, 89	5.65 5.63 5.63 5.63 5.63	69, X15, 38	388	3,977.00	12, 289.32	돌얼얼	335	2 22	222
5308 5308	× 0.7	38, 697, 87 6, 544, 82	3,315.06	10, 420.37	85	1,387.85	6,943.41 8,661.23	839 7.	555	ää	222
22 22 22 23 23 24 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	No. 10 No. 11	39, 559. 11 66, 457. 09 34, 691. 27	34.98 517.50	55, 772. 65 41, 611. 82 47, 701. 13	888	540.64 4, 555.73	8, 461. 12 3, 777. 24 0, 879. 77	866	888	28	=22
38.83 14.83 14.83	N. 5. 13 N. 5. 14 N. 5. 15.	61, 062.35	8, 351.31	6, 597. 27 56, 796. 77 37, 706. 30	6, 597. 27 126, 210. 43 37, 731. 30	2, 294. 48 2, 787. 15	11, 521.08 15, 686.68 11, 928.57	18, 888.03 144, 191.59 52, 447.02	2000	Apr. 2, 1919 June 17, 1919 June 11, 1919	222
5317 5317	No. 16 No. 17	\$16,020.89	4.25	37,022.83	.55	10,953.45	18,851.13	≓ & E	888	دي رهي پ	:23
222 223 233 233 233 233 233 233 233 233	X 5 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19		190.96	ġġ.		3, 512.07	11,522.69	335 335 35 35 35 35 35	38	`` ` a`	22
	No. 22 No. 22 No. 23	16, 864. 17	139. 15	28,301.92	: :8	7. 68 7. 68 2, 130. 33	22	. 35 85 5 35 35	900	2	2
222 245	No SE	31, 517. 49	120.70	-, 5, 9, 58, 54, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	38, 228, 15 38, 228, 13 9, 145, 36	10,434,92	68, 963. 79 11, 171. 80	21, 626.84 21, 307.57	888	July 12, 1919 June 30, 1919 Oct. 1, 1919	non;
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		715.84	4, 868, 73 1, 166, 73 59, 638, 92	\$2 3	2, 318. 56	22.28	188E	888	4,8,8,	222
	NNO.22	25,02 28,03 20,03	8, 900. 66 4, 960. 52 270. 52 24, 53	29, 242, 28 20, 242, 28 20, 282, 28 21, 28	479, 278, 10 80, 890, 27 60, 891, 46 66, 831, 15	189, 806, 98 1, 187, 08 12, 449, 61 13, 062, 97	2,248.78 8,137.82 4,001.46 7,934.75	671, 333, 36 90, 233, 87 63, 103, 31 61, 702, 83	8888	Aug. 14, 1919 Sept. 4, 1919 Hept. 8, 1919	2222
	222 666 ZZZ	565	746. 22 415. 20	충영룡	報記	1, 679, 34 53, 219, 68 1, 734, 61	\$ <u>5</u> \$	혈결물	222	Aug. 22, 1919 Aug. 20, 1919 Bept. 30, 1919	223

		22222		
Sept. 3, 1919 Oct. 2, 1919	Oct. 2, 1919 Oct. 3, 1919 Oct. 4, 1919 Oct. 10, 1919	Oct. 6, 1919 Oct. 2, 1919 Oct. 20, 1919 Oct. 10, 1919	Oct. 28, 1919 Oct. 15, 1919 Oct. 20, 1919 Sept. 19, 1919 Oct. 27, 1919	
88888	22222	888888	22222	
12 1 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	82.448	2, 434, 17 24, 485, 60 7, 079, 51 88, 134, 53 88, 49, 83 89, 89, 89, 89, 89, 89, 89, 89, 89, 89,	15, 318, 75 93, 382, 22 122, 329, 48 49, 217, 50 93, 565, 93 190, 75	4, 280, 343. 92
7, 354, 88 85, 684, 85 33, 123, 25 7, 594, 85	88886F	842.87 9, 110.33 1, 823.99 15, 883.19	2, 048.19 17, 842.18 8, 253.31 28, 725.91 15, 189.03	529, 009. 96
280.85 1,091.35 280.85	, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1,442.37	1,375.88 1,375.88 839.36 2,671.58 3,770.12	303, 894. 08
3355	288E:		13,096,29 74,164.08 113,236,81 17,820,01 74,636.78	3, 447, 439. 88
388	888288 8888 8888 8888 8888 8888 8888 8	1, 464. 24 13, 800. 50 5, 084. 48 12, 332. 39 5, 745. 54	25.55.55 5.55.55 5.55.55 5.55.55	1, 497, 367. 96
388	888288 8888 8888 8888 8888 8888 8888 8	<u> </u>	25.55.55 5.55.55 5.55.55 5.55.55	45, 780. 33 1, 497, 367. 96
3, 849.	100, 398. 71	1, 464, 13, 412, 61 550, 00 36, 532, 12, 885, 09 84, 40 12, 332, 5, 500, 500, 500, 500, 500, 500, 500,	00 13 081. 47 37 659. 59 73 656. 16,150. 75 21,243.	780.33
No. 41 No. 42 No. 43 No. 43 No. 43 No. 43 No. 43 No. 43 No. 44 No. 43 No. 44 No. 44 No. 45 No. 45 No	100, 398, 71 115, 80 4, 098, 100, 398, 71 498, 83 60, 658, 83 6, 588, 57 792, 67, 792, 67, 41, 471, 09 672, 27 43, 974,	No. 50	32, 326, 67 4, 177, 47 37, 691, 691, 691, 692, 692, 692, 692, 692, 692, 692, 692	291. 59 45, 780. 33

1922. [First quarter.]

		·	Title C.							Status.	
o X	Name of vessel.	Acerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to substitute to substitute to including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
!	EAGLE BOATS.				į						
8				\$767,94			: \$29.21	\$738.73		28	
2300				507.14	507.14		15.56	491.58	:	88	
35	No. 3	29 063 57	£276. 60	2 304.97	=	\$107.86	1 251.30	13 62 53		3	
8	No. 5			783.68	788		85.28	878. 83		8	
8			র র	7,629.36	20,272	8:3	2,675,73	22,949.14			,
290	No. 7		- 2	7,682.15	19,783	27.5	749.00	21, 196, 88	<u> </u>		
35	9 ON	9, 142, 82	595	7,254.78	16,980	1.302.65	įŔ	18,328,51			
5310	No. 10.		4	153.53	. 156.	323. 14	357.34	836.71			
1183		13, 173, 36	80.5	×, 926. 70	22, 401.02	1,015.13	:::::::::::::::::::::::::::::::::::::::	23,416,15			
25	No. 12			4,524,11	9, 045.	3.5		5, 387, 27			
35	_	12.049.59	3	4,742,31	16, 791	.,	747.80	17,546.30			
5315	No. 15	<u>:</u>	225.81	8, 117.06	8,342	531.54	380, 41	9,254.82		8	
5317	No. 17, Submarine base, Hamp- ton Roads	68, 951, 65		14, 373, 20	. <u></u>	225, 68		83.550.53		8	
8183	.No. 18			241.00	<u> </u>	138,70	41.40	721. 19		2	
6319			183.80	16, 761.83	≅;	196.73	34.02	17,489.48			
3	No. 25			12,2/2.25	<u>z</u> ,	6, 084, 09	200.10	2,53		:	8
ğ	a oz						į=	25			8
2	No. 26		20.25	∞	œĈ	2, 413, 21	176.93	11,413.88			
			143.98	~	<u>م</u>	3,5%5,5%	32.21	9,888.9		8	
	Z 02		11.77	12 308 01	12 420 78	28.25	594 MD	13 197 12	:		8
	_			<u>ר</u>	[167.49	2,069,48	2 286.97			2
	No. 31, Submarine base, Coco	126, 130, 89		25.	128,977.11	£7.23		127, 824, 34		ŝ	

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	: :8	7A :	26.		192	88		28.			
	:		S		8	8	1 92	8			
	<u>:</u>										ent.
	12,057.96	2, 488.62	8,5 2,59,5 2,59,5 2,59,5 3,59,5 3,59,5 3,59,5 3,59,5 3,59,5 3,59,5 3,59,5 3,59,5 4,59,5 5,59,	3,951.57	2, 809 , 50 11, 952 , 06	8, 984.55 986.55	7, 840. 823.88	7, 903. 49 16, 394. 16	20, 651. 94 8, 173. 48 16, 189. 42	11 848	6 50 per cent
1, 149, 64	88.67	272.17	583.77	1,922,91	2 2 2 3 3 3 3	2, 164, 64	1,919.15	1,996,49	3,945,40 20,28 537.01	36, 162, 95	
316.83	36.50	5, 860. 04	245.35	275.98	202.00	1, 283.93	468.27	1, 103.06	1.35 746.45 316.53	31, 797.64	Reserve.
21, 750.56	11, 574. 79	18, 356, 41	38, 194, 17	55	28	5, 535, 98	7, 372, 62	88	16, 705, 19 7, 397, 75 15, 335, 88	88	•
6, 580.01	10, 877.00	18, 030, 08	612, 32 9, 850, 30 107, 36	170.28 28.28	211.26	4, 489, 28	6, 908, 27	4,4, 78,35 8,88	4, 067. 17 7, 169. 70 3, 505. 69	290, 674. 95	у.
36.92	697. 70	326.35	315.66	91.56	240.19		464.36	3, 867. 41	130.50 228.05 77.50	14, 600. 33	* Ordinary
15, 083, 63			2x, 02x, 21	3, 100, 65		1,046.70		7, 216. 18	12, 507. 52	639, 612. 24	
0 - 0 X		7 O Z	No. 46	N. 0. 49	550	X 0 52	20.0	55	XX.0.X 5.5.5 5.5.5 5.5.5	Total	1 Credit.
9	3	33	335	33	88 88 88	555 555 555 555 555 555 555 555 555 55	88.82 25.83	5356 5357	88 88 88 88 88 88		

M363-22-7

TENDERS TO TORPEDO VESSELS.

Mr. Kelley. Now, tenders to torpedo boats. What did they in 1916?

Admiral Potter. In 1916?

Mr. Kelley. I do not think it will be specially valuable to back to 1916 as to the torpedo boats, because the numbers are different; therefore, let us take last year and this year and make plans for the future based on those two years.

Mr. OLIVER. I think the relative cost of operation might

pertinent.

Mr. Kelley. That might be, and we will take some particular

Admiral Potter. In 1921 there were 19 tenders to torpedo box and the total cost of them was \$10,611,302.85.

Mr. Kelley. Those were the ships accompanying the destroye Admiral Potter. Yes, sir.

Mr. Kelley. From which the repairs were made?

Admiral Potter. Yes, sir; and from which supplies were furnish

Mr. Kelley. Supplies and repairs? Admiral Potter. Yes, sir.

Mr. Kelley. It does not include the oil?

Admiral POTTER. Not the oil furnished by the regular tankers. Col. Roosevelt. Am I not correct in saying that in addition those functions they are really the upkeep end of the destroyers

Admiral Potter. Absolutely; yes, sir. Col. Roosevelt. If you will recall, when we had up the quest of the expense of the ration the fact was brought out that the li boats are particularly expensive because we have no supply of

on board the little boats.

Mr. Kelley. The stores are carried on these tenders?

Admiral POTTER. The reserve stores, as it were.

Mr. Kelley. And you have an officer there who serves the st out to the various ships that make application?

Admiral POTTER. Yes; that is correct.

Mr. Kelley. And each officer keeps track of what he issue each ship?

Admiral Potter. Yes, sir.

Mr. Kelley. Last year this service cost \$10,611,302.85? Admiral Potter. The total operation and maintenance; yes, Mr. Kelley. What did the tenders cost during the first t months of 1922?

Admiral Potter. Eighteen tenders, \$1,782,532.90. If that v on at the same rate during the rest of the year it would be little

\$7,000,000. Mr. Kelley. If the destroyers were operating as they were o

ating during the first quarter, and these ships were kept in commis for the purpose of making necessary repairs and issuing supplies, would be about \$7,000,000 a year?

Admiral Potter. \$7,128,000.

Mr. Kelley. For this current year?

Admiral Potter. Yes, sir.

Col. Roosevelt. Just for your information there are only 1 commission now.

Mr. Kelley. Just at this moment?

Col. ROOSEVELT. Yes; and they will be reduced three more.

Mr. Kelley. These are the destroyer tenders?

Admiral Potter. Yes, sir.

Mr. Kelley. Suppose we take a destroyer that was in full comission in 1916. Was the Alert in full commission?

Mr. REED. Yes. sir.

Mr. Kelley. What about the Fulton?

Mr. Reed. Because outside accounts are carried on some of these ttle ships the amounts are very large.

Mr. Kelley. From the large amounts that appear here I am quite

re there were outside duties.

Admiral Potter. I can give a comparison between 1921 and 1922,

it nothing very good between 1916 and 1922.

Mr. KELLEY. Which one of these others would be comparable with e Alert, leaving out of consideration the misleading conclusion you ight draw from the amount of the pay?

Admiral Potter. We can compare the Alert throughout, then, if

allow for this pay.

Mr. Kelley. I am afraid that will not quite do. Is there anying in 1916 that is fairly comparable with the Beaver or the Buffalo the Bushnell?

Col. ROOSEVELT. Would it not be a good idea, Mr. Chairman, if u just ask Admiral Potter if he would look up two comparative ps and furnish you with an answer?

Mr. Kelley. I think that would be a good suggestion.

Mr. OLIVER. And please insert also the total amount expended on tenders as well as destroyers.

Admiral POTTER. For 1916 the total amount expended on destroyer ders was \$1,305,685.91.

Mr. OLIVER. And on the destroyers?

Admiral POTTER. On the destroyers themselves?

Ar. OLIVER. Yes, sir; in 1916.

Ar. Kelley. I think that was given as \$4,000,000 and something. Admiral Potter. Destroyers themselves, \$4,231,092.07, and in

Mr. Kelley (interposing). The destroyer tenders cost ten times much, because of the very greatly increased number of destroyers.

u will put in the record at this point a table of the destroyer ders ?

Admiral Potter. Yes, sir.

Months in conmis- sion.	Commis- alon in roserva.		
Months (Full com mi m icu.		2×635
	Pate of first commission.		2 (200) No recent (10) No recent (10) Nov. 24, 100) Nov. 24, 100) Nov. 24, 100) Nov. 25, 100 (10) Nov
	Tunnage		144745444 16476568 16476668
	nadifenance and operation.		## 100, 000, 000, 000, 000, 000, 000, 00
Repairs	alterations to ships, inclui- ing equipage.		88, 101, 13 1,446, 29 1,446, 29 1,5,818, 10 1,5,818, 10 1,730, 11 1,730, 11
	Total operat- ing expenses.		818, 002, 10 200, 100, 20 200, 100, 20 100, 100, 20 200, 100, 20 200, 100, 20 200, 100, 20 200, 200, 100, 20 200, 200, 100, 20
	Stores issued (Including pro- visions and medical stores).		894, 619, 44 \$23, 802, 77 \$900, 489, 89 \$1100, 10 \$90, 101, 10 \$00, 771, 14 \$3, 617, 78 \$30, 784, 79 \$100, 102, 31 \$1, 440, 29 \$101, 102, 31 \$1, 440, 29 \$101, 102, 31 \$1, 440, 29 \$101, 102, 31, 37, 32 \$1, 441, 99 \$101, 102, 31 \$1, 473, 17 \$1, 42, 618, 82 \$1, 618, 197, 199 \$1, 800, 13 \$1, 800,
Title C.	Public vouchers (finduling communical rations).		85 WE 77 4 MIL 18 4 MIL 18 1 M
	Acerned pay.	•	994 619. 44 64, 5710. 14 104, 631. 72 115, 665. 57 115, 629. 15 117, 629. 68 36, 678. 58 811, 377. 78
	Name of vessel.	TENDERS TO TORPEDO VESSELS.	Alert. Bushnell Bushnell Bushnell Fulton Iris Parther Ponther Ponthey Total Total
i	ģ Z		55666655

1916.

No. Name of vessel. Accrused	Title C. Miscellaneous expense, Including communications. 22 844, 207. 16 9, 248, 70 11, 268, 50 33, 916, 09 22, 51 17, 417, 41 11, 618, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 40 11, 268, 30 11, 268, 30 11, 36, 33, 38 22, 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 22, 23, 33, 38 22, 23, 33, 33, 34 22, 24, 33, 38 22, 24, 33, 38 22, 24, 33, 38 22, 24, 33, 38 22, 24, 33, 38 22, 24, 34, 34, 34, 34, 34, 34, 34, 34, 34, 3	8tores issued, Including provisions and medical stores. \$44, 206. 65 153, 426. 89 100, 524, 483. 74 155, 106. 39 77, 395. 10 49. 86. 82 221, 685. 68 221, 738. 10 70, 388. 10 70, 388. 10 77, 581. 68 28 388. 10 77, 581. 68 28 388. 10 70, 588. 10 77, 581. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 10 70, 588. 21, 685. 68 28 388. 21, 685. 68 28 28 2	Total oxpensating expenses. \$1,333,567.03 \$1,333,567.03 \$1,345,725.13 \$2,452.61 \$22,202.44 \$25,502.13 \$55,5	Equipage. 572 130 28 28 28 28 28 28 28 28 28 28 28 28 28	Repairs and alterations to ships including equipage. 20, 887. 51 58, 992.68 115, 298.11 117, 322.10 4, 713.22 10 4, 713.23 10 60, 688.75 10, 288.11 60, 688.75 10, 28	10d Total and Total and Total and Total and operations. The floor. The floor and operations are seen as a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date of first commission. Jan. 25, 1912 Oct. 1, 1918 Nov. 24, 1915 Apr. 19, 1998 Apr. 19, 1998 Apr. 19, 1898 Apr. 16, 1898	Months in commission of the co
Rainbow 304, 660. Relief Whitney	10, 514.	డ్ బ్ల _ల	జ్ఞి బ్ల _ి	25.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	8 8	र्ड्ड देख इ	4,360	1 1 1 1 1 1 1	22 ::
Total6, 018, 748, 62	32 225, 082. 60	2, 294, 184. 34	8, 538, 015. 56	617, 746. 96	1, 455, 540. 33	10, 611, 302. 85			

1922.	t quarter.]
	[Firs

	i :		Title C.	-		<u> </u>		!		Status.	
o X	Name of vessel.	Aeerned pay.	Miscellaneous eviense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operat- ing expenses.	Equipage.	Repairs and alterations to aships, including equipage.	Total main- tenance and operation.	Pays in full commission.	Operating With re- Mission. Incults in reserve of	Days out of com- mission.
i	TENDERS TO TORPEDO BOATS.										:
50	Alert. Boaver	\$51, 330, 49	\$472.08	\$1, 722.06 33, 134, 37	\$53, 524. 63 122, 455, 40	\$35, 972, 28 2, 631, 48		\$90,306.91 126,802.25			
85	Buffalo.	8.2	8, 902.00	35, 121. 67	149, 875, 64 76, 581, 36	13, 597. 07	811.74	164, 284, 45 81, 90%, 98			
899	Dixie	. <u> </u>	22.69	11, 523. 74	153,623.71	22, 192, 84		177,846.91			8
¥68.	Fulton. Hannibal	35,080.15 38,031.43	365.08	27, 60%, 62 38, 331, 70	63, 051. 85 77, 995. 27	×, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	36,096.02	107, 588, 39 80, 397, 12			1
සි සි 		8	220.00	13, 047.36	33, 447.05	1,060.00	5.8 5.8	34, 585, 74			88
38	Leonidas Melville	73, 814, 41 106, 266, 78		10, 185, 83 54, 829, 24	24,000.24 161,086.02	58	2,374,72	171; 991.58		8	
28		8	1, 404, 17	40, 152, 92	94, 658.36	5, 543, 46	6, 745, 74	106, 947, 56			8
2	Prairle	8		34, 142, 81	136, 511. 57	젊	Cr. 8, 135, 14	133,281.40			
823	Frometheus Rainbow	87, 206. 27	4	46, 189, 56	133, 396. 83	\$ 565	1,467.85	166,061.62			
2	Keller					5 0.01		10.04			3
	Total	1, 048, 242, 33	20, 073. 02	441, 380. 87	1, 509, 696, 22	166, 234. 21	106, 602, 41	1, 782, 532. 90			
1	IIV:	tenders in com	All tenders in commission 92 days except otherwise shown	except otherwi	se shown.			Reservo.	,		

GUNBOATS.

. Kelley. What was the total expense for gunboats in 1916? Imiral Potter. \$2,958,721.98; and in 1921, sir?
. Kelley. Yes, sir; in 1921.
Imiral Potter. In 1921, \$3,879,498.
. Kelley. And for 1922, the first quarter?
Imiral Potter. For 1922, the first quarter, \$699,566.64.
. Kelley. Please put in the record at this point a list of guns for 1916, 1921, and 1922.
Imiral Potter. Yes, sir.

		Title C.			Danajeend				Months i	Months in commission.
Name of vessel.	Accrued pay.	Public vouchers (including commuted rations).	Stores issued (including pro- visions and medical stores).	Total operating expenses.	alterations to ships, includ- ing equipage.	Total maintenance and operation.	Топпаде.	Date of first commission.	Full com- mission.	Commis- slon in reserve.
GUNROATS. Annapolls. Callao. Castine.	\$92,601.11 14,079.06 94,741.38	\$1,886.14 1,534.36 2,236.99	\$43,857.94 5,107.48 52,944.28	\$138, 345.19 20, 720.90 149, 922. 65	\$12,377.48 488.00 7,885.55	\$150, 722.67 21, 208.90 157, 818.20	1,010 243 1,177	July 20, 1897 July 31, 1898 Oct. 22, 1894	22 92	
Dolphin	118, 130. 93	5,098.03	40,305.67	163, 534, 63	14, 744.50	178, 279.13	;	íœ;	12	
John Juan de Austria. Dubuque. Eleano. Helena.	87, 969, 55 53, 216, 66 120, 213, 42	1,009,80 1,156.68 9,141.30 27,543,61	39,340.96 54,171.80 51,491.92	248. 248.	4,674, 16 22,138, 51 4,430,47 5,811,77	7, 324. 03 150, 605. 70 120, 960. 23 205, 060. 72	1,085	. 8 ×	122	
Isle de Luzon. Machias Marietta. Monocacy	94, 326, 64 94, 522, 74 30, 724, 30	1,765.38 1,375.46 1,248.22 7,561.07	5,606.70 46,809.00 46,123.37 12,022.50	7, 372. 08 142, 511. 10 141, 894. 33 50, 307. 87	4, 473. 79 4, 473. 79 7, 624. 12	8, 244. 76 146, 984. 89 142, 638. 24 57, 931. 99	-1-1	Jan. 31, 1900 July 20, 1893 Sept. 1, 1897 June 24, 1914	2222	
Newport. Paducah	133,	6, 596.39	67, 292.13	388	6, 431.70 25, 800.12	6,431.70	144	50.00	12	
Palos. Pampanga. Petrel	6, 583. 57 6, 583. 57 61, 640. 24	5, 841.68 808.82 1, 159.45	11, 393, 15 5, 468, 46 26, 426, 52	49, 256.31 12, 860.85 89, 226.21	9, 388, 71 24, 950, 72	49, 595. 02 22, 249. 63 114, 176. 93		2,8,0	222	
Princeton	28,9	1, 199.62	184,	116.	1, 189.99	56, 251. 82 42, 475. 19	ď -	17.	12	
Sacramento Samar Sandoval	87, 455.04 27, 094.50	2,674.41 4,598.49 952.75	38, 594. 02 10, 084. 42 466. 67	41, 777. 41	3,889.20	158, 301. 90 45, 666. 61	-	Apr. 26, 1914 May 26, 1899 Sent. 2, 1898	22	
Vicksburg Villalobos	E 183	5, 420.60	19, 503, 42	380	3, 574. 18	97, 358, 27	1,	ca'ca'	123	12
Wilmington.	131,695.70	12,727.06	54, 554, 02 45, 267, 52 64, 777, 70	88	23,048.04 14,380.76 31,996.55	204, 071. 04 209, 577. 18	-,-,	Aug. 10, 1897 May 13, 1897 Apr. 23, 1889	222	
Total Fquipage.	1,673,569.74	114,613.02	803.736.78	2, 591, 919. 54	336, 802.44	2, 958, 521. 98				

Fortal Stated, operating Equipage, to alabys, and operating sand operating Equipage, to alabys, and operating stand operating tion. 1401.11			Title C.				Repairs and					
\$167, 647. 86 \$5, 576. 65 \$114, 308. 03 \$27, 751. 94 \$106, 450, 95 \$17, 323. 94 \$106, 450, 95 \$17, 323. 94 \$17, 757. 38 \$17, 647. 86 \$25, 646. 65 \$17, 325. 94 \$17, 757. 38 \$17, 647. 87 \$17, 110, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17, 221. 94 \$17	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.		Months in com- mission.
197, 317, 67 15, 134, 58 105, 400, 65 317, 932, 60 1, 154, 70 4, 960, 23 314, 59 1, 486 1, 154, 70 4, 960, 23 1, 486 1, 130	GUNDOATS. Annapolis Ashaville	\$157, 647. 86	\$5,576.05	\$491.11 114,308.03	1631	76.8	828	247.	1,010	1.1634	1897	
91,6072.65 21,020.84 40,334.97 152,988.74 45,256.90 1,690.26 78,412.12 38,157.92 1,085 13,745.64 2,328.96 11,196.70 27,260.40 25,687.84 138.98 73,698.01 1377.5	Dolphin Don Juna De Austria	197, 317. 57	15, 134, 38	105, 480. 95	335	255	804 804	679.	1,486		1885	7 4
59, 108, 88 31, 818, 16 13, 806, 42 202, 22 10, 588, 40 24, 617, 04 1, 177 59, 108, 88 31, 176, 88 24, 308, 30 24, 508, 13 19, 511, 10 183, 19 24, 617, 04 1, 177 124, 500, 16 1, 580, 18 32, 308, 30 35, 308, 41 35, 317, 308, 30 100, 308, 47 36, 317, 308, 30 100, 308, 47 36, 317, 308, 30 100, 308, 47 36, 317, 308, 30 100, 308, 47 36, 317, 308, 30 100, 308, 47 36, 317, 30 3	Jubuque Esleano Essex Gopher Gopher	25.26	020 145 283 313.	334. 429. 199.	958. 901. 229. 640.	857.26	10, 502. 26 10, 502. 26 138. 98 24, 412. 12	170 170 187 188 189 189 189	1, 920 1, 375 1, 392	Nov. 11, 3 July 12, 13, 3	1902	7
124,569.47	Machias Marietta Monocaey Nantueket	108	, 78.26 31,176.88	818. 398. 451.	896. 398. 241.	202, 22 204, 50 9, 639, 13 6, 110, 20	10, 548, 40 153, 19 19, 709, 16 16, 941, 10	647. 755. 293.	1,177		1893	: : :
51,414.66 11,539.23 10,067.41 73,071.30 6,101.92 6,705.41 86,135.60 350 11,055.41 11,155.41 11,155.41 71,155.41 11,1	Nashville Newport. Paducah Palos. Pampanga.	569.	830. 621. 467.	536. 706. 320.	28.28.29	10,368.47 249,952.60 11,741.77 8,141.05	29, 946 94 106, 406. 79 11, 975. 61 4, 669. 34	887. 249. 435.	1,371 1,010 1,085 190 243		1897 1905 1914 1899	111
61,792.07 23,457.85 12,825.35 107,076.27 13,116.45 38.84.30 123,077.25 370 21,155.04 123,077.25 370 27,124,41 123,077.25 370 21,155.04 123,077.25 370 27,124,41 123,077.25	Petrel Quiros. Sacramento. Samar	1486	334.000	28,28	85438	108.86 6,101.92 28,461.16 1,135.41	6,964.44 84,738.70 71.37	858. 137. 321. 35.	350 350 1,425 243 100	Dec. 10, Mar. 14, Mar. 26, Mar. 26, Sept. 2,	1889 1900 1914 1899 1898	: :
	uusa Vieksburg Villalobos W beeling W ilmington W olverine Yantie	792. 155. 155. 145.	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	17, 276.81 21, 826.35 46, 815.66 27, 641.10 67, 286.39 8, 142.95 5, 994.34 1, 013.03	276. 076. 766. 393. 454. 976.	207. 207. 207. 1116. 1454. 740.	824828468	316. 316. 316. 3214. 214. 518.	1,010 370 370 1,392 1,392 1,710	Oct. 23, Mar. 15, Nay 13, July 11, Apr. 24,	1897 1900 1918 1918 1911 1917	1 1 1 111

1922. [First quarter.]

			Title C.							Status.1	
N. O	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operat- ing expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
33710 33721 33752 33752 33753 3370 3370 3370 3370 3370 3370 337	Annapolis Ashavilio Ashavilio Diaphin Don Juan de Austria Eleano Eseax (opher Recna Machias Wickeburg Villalobos Wheeling Wilmate Wilmate Wilmate	25, 114. 26 2, 175. 28 2, 175. 28 2, 25. 27 2, 25. 27 2, 25. 27 2, 25. 28 2, 26. 28 2,	2, 272, 58 2, 2830, 33 2, 2830, 33 3, 45, 20 4, 373, 50 4, 333, 50 1, 9, 908, 53 1, 9, 908, 53 1, 9, 908, 53 1, 9, 908, 53 1, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,	\$16, 297.97 33, 741.29; 10, 208.2.17 3, 208.2.17 4, 020.69 8, 618.20; 6, 224.69 6, 224.69 7, 271.29 4, 670.68 4, 670.68 8, 682.21 21, 271.29 8, 682.21 8, 682.21	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	2, 284.72 2, 284.73 2, 284	##	######################################			8 8 8 8 8 8 8
102	Yorktown. Total	371, 205.34	ą	200, 021. 02	618, 723. 58	35, 975. 63	44, 807. 43	542.20			\$:

1 All gunboats in commission 92 days unless otherwise shown.

1. ROOSEVELT. They are practically all in China, doing work

s; in fact, all of them.

. Kelley. Now, the transports? Imiral Potter. In 1916, \$751,342.17.

. Kelley. And for 1921?

Imiral POTTER. For 1921, \$2,945,391, and for the first three ths of 1922, \$260,309.31.

TRANSPORTS.

r. Davis. How many transports have you?

l. Roosevelt. We have four in commission.

Imiral Porter. We have four in commission, but we have mulated charges for 14.

. Kelley. I was a little curious to know what happened to the

lerson in 1921, \$413,763.35 for repairs.

lmiral Potter. I do not know the reason. She went on the o Domingo route.

Kelley. Do you remember anything about it?

Roosevelt. No, sir; I do not. The Henderson has not been

red since, I recall.

. Kelley: This was before your time.

l. Roosevelt. That is why I can not give you an answer.
miral Potter. The figures you read are correct, but I do not

the reason.

. KELLEY. The Great Northern has been eliminated from the · entirely?

. ROOSEVELT. Yes, sir.

KELLEY. You will put in the list of transports and the tables three periods which we are discussing?

	mmls-	Commission in reserve.						Months in com- mission.		<u>eq</u>
	Months in commis- sion.	Full com- sid mission.	12 13			_		Date of first in commission.	`	ME SEE
		Date of first commission.	July 18, 1898 Mar. 19, 1900 Nov. 20, 1902 Building Apr. 14, 1898					Ton- nage.		7,118
		Tonnage.	8, 115 10, 500 10, 500 6, 500					Total maintenance and opera- tion.		5. 48. 54. 56. 68. 68. 68. 68. 68. 68. 68. 68. 68. 6
		Total maintenance and operation.	£213, 784, 52 28, 696, 66 236, 561, 59 251, 286, 40	751, 342, 17	187, 835, 54		Romaira and	alterations to ships, including equipage.		19. 97. 12. 13. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15
	Renairs and	alterations to ships, includ- ing equipage.	\$62,596,67 25,885,94 87,923,22 47,534,64	223, 943. 47			!	Equipage.		\$22.00 6.617.65 80.04
1916.		Total operat- ing expenses.	\$151, 184, 85 3, 813, 72 168, 638, 37 203, 761, 76			1921.		Total operating expenses.		20 00 00 00 00 00 00 00 00 00 00 00 00 0
	Stores issued in Visions and medical stores).		\$73, 633, 23 3, 813, 72 53, 053, 04 70, 933, 93	201, 433, 92			!	Stores issued, including provisions and medical stores.		20 08. 20
	Title C.	Public vouchers (including commuted rations).	\$2, 769. 50 4, 336. 91 4, 983. 66	12, 110, 07			Title C.	Miscellaneous expense, in- cluding com- muted rations.		10 388 10 388 10 388
		Accrued pay.	874, 782. 12 111, 228, 42 127, 844. 17	313, 854. 71		_ 	i !	Acerued pay.		
		Name of vessel.	TRANNFORTS. Buffalo. General Alava. Hancock. Henderson. Prairie.	Total	Equipage	_ 		Name of vessel.	Transports.	Antonia Charles Elso Fluidad Poridan General Alava General Alava
		g X					!	, o		2825 A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

73 5,646,84 7,000 Apr. 7,000 Apr. 7,000 Apr. 7,000 Apr. 7,000 Apr. 7,000 Apr. 3,554,68 77,000 Apr. 7,000 Apr.	47 15, 315, 96 16, 900 Mar. 1, 50 Mar. 6.	46 49, 158.30 Z7, 000 May 54 58 148, 44 Jan.	06 9,097.61 9,706 Nov. 3,	6, 142. 40 May	33 184, 336.	33 10, 544.	38 4.54	42 2 716.	02 4, 655. 25 8, 657.	33 18, 316.64 11, 298 Apr.	47 22, 181. 21 9, 680 July 31 3, 400. 08	16.30 16,275	94 702.29 36,905 Apr. 11,240.74 8,966.15	.23 2,945,391.00
		≊	33,588	64	8	10, 402.	લ્યુ	4		d _v	χ κ κ			1, 012, 982.
57.24			160.00	900.00	152. 47		1.284.86	116.29	1, 527. 47	17.32	3, 168, 51		21, 187. 36	95, 272, 76
2, 107, 27 160, 773, 58 357, 48	5,580.89 302.89 84.89	88	8,025,55 4,168,06	186	38	142.02	470.43		218. 832.		¥.83 21:8		504. 60 55. 67 7, 931. 51	1, 837, 136. 01
1, 12 04, 18 180, 192, 91	5, 580, 89 302, 89	88	7,413.11	3, 795, 77	32	115.98	470. 43	7.50	218. 613.	4, 509.86 28, 170.00	616.63 53.77 53.77		18.00 16.55 7,931.51	1, 221, 133, 20
2, 100, 16 268, 77 164, 54		170.20	612. 44 79. 00	99	424.77	28.04			219.56	995, 13 371, 41	177.60		486.60	50, 726. 59
														565, 276. 22
Constant Constant III Mallory, Henry II Manchuria.	Matteonia. Maui	Mongolia Narragansett	Northern Pacific	Pastoras	Plattsburg	Santa Ana Santa Cacella	Santa Clara.	Santa Eliza Santa Malta	Santa Rosa	Shoshone	Sterra Sol Navis South Bend	St. Paul	Froy (ex. Minnesota). Wilhelmina. Yale.	Total

1923. [First quarter.]

	Days out of com- mission.			
Status.1	Operating with reduced complements in reserve or ordinary.	25 25 25		
	Days in full com- mission.			
	Total main- tenance and operation.	13,011.00 13,011.00 14,286.11 181,674.51 22.62 23.63 36,00 3	260, 309. 31	Credit.
	Repairs and alterations to ships, including equipage.	86. 16 1, 216.49 11, 521.26	12,963.77	
	Equipage.	80. 16 8034. 69 1,216.49 9,497. 98 11,521. 26	9,347.84	
	Total operating expenses.	12, 212. 71 12, 212. 71 16, 63, 45 16, 63, 72 17, 70 18, 73 18, 74 18, 74 18, 7	288, 007. 70	herwise shown.
	Stores issued, including provisions.	#11, 550 88 14,972,58 14,972,58 57, 381, 03 300,60 122,00	84, 764. 89	days except of
Title C.	Miscellaneous expense, in- cluding com- muted rations.	5, 864, 89 2, 964, 89 2, 964, 89 2, 96, 89 2, 82, 82 2, 83, 82 8, 83 8, 83 8, 84 8, 85 8, 86 8,	10,007.21	All transports out of commission 92 days except otherwise shown
	Acerned pay.	#14.00 #15.707.29 2,964.59 97.334.32 5,655.92 97.334.22 5,655.92 21.00 40.00	143, 235. 60	ransports out o
	Name of vessel.	TRANSPORTS. Charles Ethen General Alava Hancock Harrishurg Henderson Henywood Marchuria, Matsonia. Norther Pacific Plattsburg Plattsburg Santa Grees	Total	
	, Š	8511 1344 8507 8508 1148 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738 11738		

SUPPLY SHIPS.

Mr. Kelley. Now, the supply ships for 1916?

Admiral Potter. For 1916, \$848,213.01. For 1921, \$2,103,099.90.

Mr. Kelley. Are they the same ships?
Admiral Potter. There is one new ship, added in 1916, the Bridge. It is one additional ship.

Mr. Kelley. It was in the list, but only a part of the year?

Admiral POTTER. Yes, sir.

Mr. REED. There was no charge. We had four actually in commission during 1916, and we had five in 1921, one of them only for **B part** of the year.

Mr. Keller. The Bridge is an additional ship?

Admiral Potter. Yes, sir. She was built for a supply ship, the

first one actually built by the Navy for that purpose.

Mr. Kelley. Which one of these has been used with the destroyers? Admiral POTTER. There has been no supply ship of that kind that has been confined to the destroyers. The ships run in a train, and when there are destroyers they are provided just the same as any None belongs to the destroyers.

Mr. Kelley. How much did they cost the first quarter of 1922?

Admiral Potter. The same ships cost \$347,014.77.

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LZ	MAVI	DEFAULMI	NI I	AFI	ROFE	IIAII	ON BILL	, 1000.	
commis-	Commission in reserve.						Months in com- mission.	2222	<u></u> /
Months in commission.	Full com- mission.	2222	111				Date of first commission.	June 2, 1917 July 1, 1911 Go. 12, 1912 July 1, 1911	
		Building May 25, 1896 Dec. 3, 1898 July 5, 1898					Ton- De	8, 800 Jul 8, 828 Fel 700 Jul	<u>:</u>
	Date of first commission.	Buildi May 2 Dec. July							8
	Tonnage.	\$\phi \phi \phi \phi \phi \phi \phi \phi				E	Total maintenance and opera- tion.	\$506, 106.36 392, 693.40 591, 588.45 455, 332.69 34, 379.00	2, 108, 099. 90
	Total maintenance and operation.	\$184, 921. 53 185, 591. 77 226, 585, 98 251, 503, 78	848, 513. 01 212, 053. 25	1, 060, 266. 26		Repairs and	alferations to ships, including equipage.	\$62, 388, 67 133, 949, 33 1108, 427, 75 1191, 707, 16 14, 267, 63	600, 740. 74
Renairs and	alterations to ships, includ- ing equipage.	\$34,337.70 41,226.70 49,047.21 99,535.34	224, 146, 95				Equipage.	837, 987. 92 28, 704. 58 20, 299. 33 18, 721. 75	105, 852, 17
	Total operating expenses.	\$150, 583. 83 14, 583. 83 177, 548. 77 161, 568. 39	624, 066. 06		1921.		Total operating expenses.	226, 728, 57 226, 949, 49 372, 891, 38 274, 903, 78	1, 396, 506. 99
	Stores issued (including pro- visions and medical stores).	\$49, 272, 02 48, 042, 13 78, 275, 36 59, 544, 63	235, 134. 14				Stores issued, including pro- visions and medical stores.	\$193,639.51 94,390.51 185,721.88 104,315.64	576, 106. 53
Title C.	Public vouchers (including (commuted rations).	\$1, 745.09 3, 697.15 4, 610.35 4, 211.69	14, 264. 28			Title C.	Miscellaneous expense, in- cluding com- muted rations.	823, 447, 83 2, 704, 73 9, 913, 55 15, 873, 24	52, ISR. 41
	Acerned pay.	\$99, 506. 72 82, 625. 79 94, 663. 06 87, 812. 07	374, 667. 64				Accrued pay.	8277, 642. 23 132, 854. 25 170, 285. 95 154, 714. 90 23, 744. 73	768, 212, 05
	Name of vessel.	SUPPLY SHIPS. Bridge Selice Cultion Thanke	Total.	Total			Name of vessel.	SUPPLY SHIPS. Bridge. Coltic. Culgos. Glacier Supply	Total
	o Z	87777 8777 8777 8777					s.	8510 8551 8552 8553 8554	

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	NAVI DEFA	INTRIENT, A	IFFIOF
,	Days out of com- mission.	8	
Status.1	Operating with reduced complements in reserve or ordinary.		
	Days in full commission.	•	
:	Total main- tenance and operation.	\$103,470,21 91,293.56 71,274.28 80,536.75	347,014,77
	Repairs and alterations to ships, including equipage.	\$1,637.28 1,711.66 113.54 56.56 439.97	3,959.01
	Equipage.	\$96, 160, 18 \$5, 672, 75 86, 142, 59 3, 439, 31 64, 400, 45 6, 734, 29 78, 476, 52 2, 003, 67	17,870.02
	Total operating expenses.		325, 185. 74
	Stores Issued, including provisions.	\$35, 645, 16 45, 889, 17 20, 658, 02 5, 868, 30	108, 060. 65
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$59, 674, 65 37, 292, 00 2, 961, 42 42, 545, 47 1, 202, 96 72, 608, 22 5, 868, 30	5,004.75 lerwise shown.
	Accrued pay.	\$59, 674, 65 37, 292, 00 42, 545, 47 72, 608, 22	212, 120. 34 5, 004. 75 on 92 days unless otherwise shown
•	Name of vessel.	SUPPLY SHIPS. Bridge (Celtic Celtic Glacier Supply	Total
	ģ	8510 8551 8552 8553 8553	

-22-

HOSPITAL SHIPS.

Mr. Kelley. The next is hospital ships.

Admiral Potter. There was only one hospital ship in commission That was the Solace, and the total amount spent on her was \$265,515.41. In 1921 we had five hospital ships in commission for 12 months, at a total expenditure of \$2,511,536.80.

Mr. Kelley. What was the amount expended for the Solace in

1921 8

Admiral Potter. \$525,466.12. The large amounts in that were for pay and stores issued.

Mr. Kelley. What was the expenditure for three months of the

present fiscal year?

Admiral POTTER. There were four ships in commission at a total cost of \$355,478.47.

Mr. Kelley. I take it that the Solace is pretty well out of commission?

Admiral Potter. Yes, sir.

Mr. Kelley. You may put in the record at this point the table covering the hospital ships for the three periods.

Admiral Potter. I will do so.

Months in commis-	Commission in reserve.				Months In com- mission.		88 895	
Months 1	Full commission.	12			Date of first commission.		Nov. 14, 1918 Mar. 18, 1918 do Dec. 28, 1920 Aug. 31, 1919 July 1, 1917	
	Date of first commission.	Apr. 14, 1898			Ton- nage.		0.01 0.01 0.01 0.01 0.00 0.00 0.00 0.00	
	Tonnage. cc	5,700			Total maintenance and opera- tion.		81, 456. 14 225, 635. 41 945, 643. 78 749, 478. 78 2, 866. 22 525, 466. 12 1, 047. 65	2, 511, 536. 80
	Total maintenance and operation.	\$285, 515, 41 66, 378, 85 331, 894, 26		Renairs and	alferations to ships, including equipage.		81, 341. 03 123, 360. 19 160, 441. 25 23, 506. 91 2, 783. 55 56, 682. 17 860. 02	368, 934. 12
	alterations to ships, includ- ing equipage.	\$107, 565. 65			Equipage.		\$3,702.88 76,442.97 255,343.83 15,628.56 119.09	351, 247. 00
	Total operat- ing expenses.	\$157,949.76	1921.		Total operating expenses.		\$115.11 158,572.34 708,758.56 470,629.04 453,205.39 68.54 5.70	1, 791, 355. 68
	Stores issued (including provisions and medical stores).	# 7,015.33			Stores issued, including pro- visions and medical stores.		\$115.11 41,559.54 282,272.72 220,309.19 152,227.98 68.54 5.70	696, 558. 78
Title C.	Public vouchers (including commuted rations).	\$8, 390. 75		Title C.	Miscellaneous expense, in- cluding com- muted rations.		\$8, 237.69 19, 707.51 18, 427.66 14, 519.48	60, 892. 34
	Pu Accrued pay.	\$102, 543.68			Accrued pay.		\$108, 775. 11 406, 779. 33 231, 892. 19 286, 457. 93	1, 033, 904. 56
	Name of vossel.	HOSPITAL SHIP. Solace Equipage Total			Name of vessel.	HOSPITAL SHIPS.	Adrian. Comfort. Macry Relief) Hospital Ship No. 1. Repose Solace. South Port	Total
	g X	108			o Z	İ	8577 8578 8578 8576 8915 8915 2159 2159	

1922. [First quarter.]

			Title C.							Status.1	
N. G	Name of vessel.	Acerned pay.	Miscellancous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating With ro- Days in duced I full com- mission. ments in reserve or ordinary.	Days out of com- mission.
8577 8578 8576 8600	HOSPITAL SHIPS. Comfort Mercy (Relief) Hospital Ship No. 1. Solace Total	\$9, 620. 66 90, 644. 87 115, 578. 33 5, 176. 46	81, 617, 31 21, 68 2, 419, 61 63, 5931, 21 4, 091, 60	57, 736, 65 41, 103, 37 68, 931, 21	\$19, 004. 62 131, 732. 92 186, 929, 15 5, 170. 46	\$1, 398, 75 2, 395, 12 9, 928, 43 4.30 13, 726, 60	\$170.01 383.87 11,965.85 260.68	\$20, 573, 38 134, 571, 91 194, 571, 91 5, 411, 45	8228	8288	25 25

FUEL SHIPS.

Mr. Kelley. The next is fuel ships. What was the total expense or fuel ships in 1916?

Admiral POTTER. \$2,641,307. 42. Mr. Kelley. And in 1921?

Admiral Potter. In 1921, \$12,595,787.56. For the first three months of 1922 the expenditure was \$2,488,764.04.

Mr. Kelley. At the same rate of expenditure the expense for the

rear would be almost \$10,000,000.

Admiral Potter. Yes, sir.

Mr. Kelley. Are certain ones of these fuel ships assigned to

lestroyers?

Admiral POTTER. No, sir; they are all held in the same position as general supply ships. They consort with the fleet or main force, **nd** when destroyers are present they also supply them. Sometimes hev send special missions to them.

Mr. Kelley. If destroyers operate in separate squadrons, then, of course, a certain number of these fuel ships would go along with

hem?

Admiral Potter. The method usually followed is for the fuel ship make the best of its way to the port direct, and catch the destroyers as they come in.

Mr. Kelley. Would you be in a position to give the percentage of

ise for destroyers that these ships are assigned to?

Admiral Potter. No, sir; not offhand.

Mr. Kelley. That is to say, of this \$10,000,000 for fuel ships, what

percentage would be due to the destroyers?

Admiral Potter. We could work out something that would show pretty closely the proportion, and we could give you a fair approximation of it.

Mr. Kelley. Work out this proposition: Basing the number of fuel ships on the destroyers per hundred, how many fuel ships per hun-

dred would be required for the destroyers?

Admiral Potter. We had two oilers whose sole duty it was for a ziven time to supply oil to the east coast reserve destroyers, and there

was one fuel oiler performing the same duty on the west coast.

Mr. Kelley. You would be in the best position to give information as to the number of these ships that would be unnecessary for

every 100 destroyers put out of commission?

Admiral POTTER. Yes, sir; we could figure that out upon the basis of delivering oil to the destroyers, or we could tell how many of those vessels would be necessary to make that delivery.

Mr. Kelley. In other words, assuming that you have a Navy with 100 destroyers, you can state about what would be required in the way of fuel ships for those destroyers; how many for an additional 100 destroyers; how many for a further additional 100 destroyers, etc., so as to get at the number of fuel ships required under those varying conditions.

Admiral POTTER. We can supply that.

Mr. Kelley. You may insert in the record at this point the table covering the fuel ships.

Admiral POTTER. We will do so.

OILERS REQUIRED TO MEET FUEL OIL NEEDS OF 100 DESTROYERS.

The following tabulation is submitted showing the number of oilers required to meet the fuel-oil needs of 100 destroyers:

Days per month (24 hours) spent in cruising	0	1	2	3	4	5	6	10
Days per month spent in port	30	29	28	27	26	25	24	20
ACTIVE.					1			1
Number of barrels consumed per month by 1 destroyer in active commission	870	1,068	1,266	1,464	1,662	1,860	2,058	. 2,850
per month by 100 destroyers in active commission	87,000	106, 900	126,600	146, 400	166,200	186,000	205,800	285,000
mission on following stations: Atlantic coast. European stations. Pacific coast. Asiatic stations.	2 6 2 7	2 8 3 9	3 9 3 10	3 11 4 12	12 4 13	14 14 5 15	15 5 16	6 20 7 21
RESERVE.			!	•				
Number of oilers required if destroyers are kept in reserve on following stations: Atlantic coast. Pacific coast.	2 1	2 2	3 2	, 3 2	: . 4 2	4 2	4 2	6

Note.—The above data is predicated upon the assumption that destroyers will operate under conditions similar to those that have obtained during the past year. An increased number of ollers will be required in the event that longer cruises are undertaken, asthis would result in vessels operating at a greater distance from source of oil supply. The number of ollers required for a given number of destroyers varies directly with the amount of cruising and the distance of the vessels from the source of oil supply.

			Tith C.		•	Repairs and				Months L	Months in commission.
4	Name of vessel.	Accrued pay.	Public vouchers, including commuted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	alterations to ahips, includ- ing equipage.	maintenance and operation.	Tonnage.	Date of first commission.	Full com- mission.	Commission in reserve.
	FUEL BHIPS.					!					1
=======================================	Aberenda	ᅙ	ž	8	\$62,013.36	\$18,331	著	6,680	8	13	
3	Alax	\$	ន	8	75, 358, 20	9, 158	517.	9,250		2	
88	Arethusa	25,000 25	, 4 3 3 3 3 3	8,2 8,2	57, 689, 37	46, 827. 47	104, 516, 84	8.5 8.5	May 77 1986	22	
8	Caesar	ğ	ž	8	52, 679. 94	24,007.	84	3	May 13, 1898	121	
5	Cayens	40 000 14		24 741 00	200 300 000	î	. 5	36,30	Ĕ,		
33	Hector	40, 437, 54	6,305.7	43,414.20	90,155,60	3	ġ	11,250	-8	122	
8	Jason.	45, 460, 00	657	58, 311. 64	112, 429, 22	8	ŝ	19,250	8	2	
8	Jupiter	108, 876, 12	8	72,041.75	184, 005, 43	Ξ.	736	19,360	٦,	12	:
8:	Justin	11, 751. 44	8	25,359.91	39,017.10	Si i	S.	004	۲,	~ 9	
1	Mars	42, 120, 48	19, 157, 27	49, 510, 49	110, 788, 24	5,002,41	155, 790, 65	11,250	Aug. 26, 1909	22	
617	Maumee	î	692, 70	5,310.75	6,003.45	8	Š	14, 500	Ē		
ğ	Nanshan.	25, 076, 15	3, 879, 26	46,988.96	75, 944, 37	8	Ę	5, 140	•	22	
3:	Neptune	105, 536, 62	2,126.14	46, 900. 27	157, 563, 03	žž	Š	96	Sept. 20, 1911	25	:
9	Nero	88.58	4,402.08	36,326,17	70,532,53	3	įĘ	9	, «q	22	
2	Orlon	41, 588, 68	4, 926, 16	67, 816, 76	114, 331.60	ğ	5	19, 250	8	12	
3	Proteus	50, 281, 72	61,811.89	47, 541. 55	159,615.16	32	2	19,080	œ.	22	
33	Satura	72,636,72	0,342.01	20, 118, 54	20, 186.82	ġ	į	9	=	27:	
85	Vilean	37, 108, 08	5, 457 91	35, 150, 05	28,787.80	ខ៌ន	38	986	Ę,	95	:
}		2000 (10	٥, ١٥٠. ٥٠	20 000 (20	and the		3		î	:	
	Total	850, 895. 68	22, 388, 38	886, 522. 35	1, 962, 806. 41	678, 501. 01	2, 641, 307. 42	1			
							مص، محمد ص				
	Grand total						3, 301, 634, 28				
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	Part Testamon		Title C.				Repairs and	E-store			Ī	
No.	Name of vesstel.	Aeerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date	Date of first commission.	Months in com- mission.
	PUEL SHIPA.							1				
-	Abarenda	\$101,748.88	\$8,820.11 2,133,45	\$57, 595. 96 114, 585, 65	\$168, 164, 95 188, 989, 93	\$16,061.95	\$36,329.52	\$220, 556, 42	6,680	July	1,1911	44
-	Alamedn	109, 667, 44	8,467.19	966	31.	58	330	92K			*******	
1007	Arethusa Barnes Robert L	36 149 06	15, 421, 61	779.	134	268	255	527	6, 160		1, 1912	
8416	Brazos	135, 360, 43	6, 287, 86	552	900	3	3	726,	14,800		1, 1919	-
8455	Caesar	49 477 40	303, 16	175	550	38	98	999	5,950		13, 1898	122
8415	Cuyama	152, 212, 07	8, 269, 97	718.	00	175.	744	121	14,500		2, 1917	-
8412	Jason	191, 036, 33	11, 121. 23	222,072.56	424, 230, 12	43, 828, 42	71,737,89	539, 796, 43	19,250	June	26, 1913	
1851	Kanawna	087	.077	111, 209, 15	309, 118, 32	15.00	28.5	155	14,500		O'TATO	1
K403	Langley (ex-Jupiter)		39, 10	440.91	480.01	12, 859.08	238	937, 328, 98	19,360	Apr.	7, 1913	
-	Mars	165,046,26	13, 130, 10	168, 672, 50	346,848.86	11, 537. 51	669	407,055,62	11,250	Aug.	26, 1909	-
1855 1414	Mathole	95	574	180	405	388	155.067.42	153	14,500	Oct	23, 1916	
-		778.	728	627,	431.	961.	000	502	5,059		-, 1898	1
840N	Fuel snip No. 17 (ex-Natchez)	939	695	55	909	28	726.	458.	19,480	Sept.	20, 1911	
-	Nereus	172, 442.00	8,060,14	64, 899. 22	245, 401. 36	15, 202, 02	493	516,096.39	19,080	Sept.	10, 1913	-
8411	Orion	73.0	255.	44	577.	220	549.	400	19, 250	July	29, 1912	-
8454	Patoka	147	676.	018	142.	368	228	739.	16,000	Oct.	13, 1919	
8409	Proteus	30	403	677	736.	3	£ 5	879	19,080	Suly Suly	9, 1913	-
958	Rapidan	900	010	9	000	101	ž od	200	10,500	NOAT	STRT 'O	
-	Salinas			166.	2, 165. 79			185				
2022	Sapelo.	104, 117, 75	11,656.60	119, 107, 23	354, 595, 35	15, 252, 85	35,755,23	405, 603. 44	16,800	Feb.	19, 1920	******
-	Saturn.	537.	738	175	451.	487.	041	980				
460 Sterling	Sterling	*************	· · · · · · · · · · · · · · · · · · ·	15,877.	877.	:	745.	132.				-

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			Title C.	:						Status.1	
o Z	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
8451	PUEL SHIPS. Abarenda	\$ 25, 165. 71		\$61,664.33	\$86,830.04	\$3,473.06	\$11,072.33	\$101, 375, 43	:		:8
1053	Alameda	27,304.95	S	6,067.63	33, 372, 58	7,064.17	30,451.01	70,887.78			:
1097	Barnes, Robert L.	11,935.43	1	41, 478.68	54,010.08	2, 145. 71	61.59	56,217.38			
3.7.5 3.7.5	Brutus	33,000.11		8,90.49 8,89.06	671.06	07.070	1, 341, 31	968.04	8#		*
32.5	('uyama	32,648.71	1,131.00	11,824.20	50, 775. 89 45, 603. 91 59, 200, 17	1,523.46	1,377.90	48, 505. 27			
325	Kanawha.	28, 160. 28, 160. 28		81, 739, 26	111, 138. 25	1,898.96	7, 322, 73 24, 73	113,359.94			
202	Mars	41,843.80	382.	99,306.01	<u> </u>	4, 190.09	24, 759, 43	170,482,11			
2 3c	: :	35,111.99		14,010.24		1,081.93	610.09	52,350.01			
803	Neptune	50, 788. 78	2,420	71,230.88		12,981.09	1,835.00	139, 286, 32			
8457	Neto	14,842.61	90.1	4, 162. 79		1,218,24	500.74	20,724.38	74		188
3	Patoka	33,987.29	6,741.	23, 282, 96		2 1, 587, 05	1,519.80	64, 460, 46			
\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Proteus.	3, 3, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	815.	51, 160, 11 49, 394, 01		8,429.05	30,495.68	129, 955. 18			
25 SE	Sara Thompson Saturn	33, 295, 02	1, 719, 73 503, 69 119, 79	3, 594. 62 3, 594. 62 15, 671. 55	73, 144. 13 18, 586. 30 49, 086. 36	2, 289. 29 2, 289. 29	1,083.28 3,671.01	21, 740, 46 55, 046, 66			
2 K K	Sterling. Trinity.	34, 143, 46	950.66	2 il. 33 49, 646. 16		1, 741. 29	540.83	87,022.40			
8405 8405 8405 8405	Vilpecanoe. Vulcan Pecos Cyclops	6,474.15	81.80	17, 800.39	24, 274, 54 72, 23	140, 339. 02 98. 60	6, 109. 68 1, 177. 00	30,38.12 141,588.25 88.60	878		232
	Total	786, 481. 07	27, 959. 21	1,052,005.13	1, 866, 445. 41	239, 797. 46	382, 521. 17	2,488,764.04			
	TV 1	l fuel ships in co	1 All fuel ships in commission 92 days unless otherwise shown.	ys unless other	wise shown.			2 Credit.			

¹ All fuel ships in commission 92 days unless otherwise shown.

MINE SWEEPERS.

Mr. Kelley. We now come to the mine sweepers: What was total number of mine sweepers in commission in 1916?

Mr. REED. We did not have that class of ships in 1916.

Mr. Kelley. What was the amount expended on account mine sweepers in 1921?

Admiral POTTER. \$7,451,349.88.

Mr. Kelley. And now much for the first three months of t

fiscal year?

Admiral POTTER. \$1,481,264.70. If we went on at that r the expenditure would be \$5,900,000, but of course, it will not on at that rate.

Mr. Kelley. I notice in this table on pages 122 and 123 of 1921 reports that all of these mine sweepers were put into commision in 1917, 1918, and 1919. They were evidently gathered during the way. Where did you get these bests?

during the war. Where did you get these boats?

Admiral POTTER. We had some built. The best of them w built by the Staten Island Shipbuilding Co., which was a gene shippard, but which built a lot of mine sweepers for us. The oth are tugs, etc., as I remember, and small yachts. Most of them converted vessels.

Mr. Kelley. This is a sort of nondescript class of ships.

Admiral POTTER. Yes, sir; consisting of yachts, tugs, etc. Ab 20 of them were specially built.

Mr. Kelley. How many of these boats are there in this list

Mr. REED. There were 44 in commission in 1921, and there considerably more than that now.

Mr. Kelley. There must be 100 here.

Mr. REED. Yes, sir; but on the ones other than the 44 in commsion the charges will only total a very few thousand dollars, a undoubtedly they represent delayed charges and some light represent on them while they were laid up at the yards.

Mr. Kelley. How many are on the list?

Admiral POTTER. The total number for 1922 is 65. Some of th have very small charges.

Mr. KELLEY. We did not have any of those ships in the Navy p

to the war at all?

Admiral Potter. I find one here which seems to have gone i commission in 1915. In general, that statement is correct.

Mr. Kelley. Do they carry any guns?

Admiral Potter. Some of them carry two machine guns.

Mr. Kelley. If we went on at the same rate that we have g for the first three months, we would spend \$5,000,000 a year account of these vessels!

Admiral Potter. Yes, sir.

Mr. Kelley. Will you put into the record, or would you be proper one to put into the record, a little analysis of the kind of be these are, giving their size and tonnage?

Admiral POTTER. I think that would be more properly an op-

tions matter.

r. OLIVER. We had very few of these boats prior to 1916?
r. Kelley. We did not have any at all.
Imiral Potter. They began in 1917.
r. Kelley. Do you know of your own knowledge how these boats used in peace time?
dmiral Potter. No, sir.
r. Kelley. You may insert your table at this point.
dmiral Potter. I will do so.

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	Name of vessel. MINE SWEEFERS. Anderton, Raymond J. Avocet. Auk Bellows, Joseph F. Biltern. Bobolinn. Bobolinn. Borker, No. 2. Barant. Cahill Winfield S.	Acertued pay	Miscellancous expense, in- cluding com- muted rations.	Character Language	Total		- Management	TO O.T.			
	E SWEEPERS. Raymond J Roph F 6.2	122		including pro- visions and medical stores.	operating expenses.	Equipage.	to ships, including equipage.	maintenance and opera- tion.	Ton-	Date of first commission.	st in com- n. mission.
	Soph F	723			9			910 10		9	
	o. 2	887	\$305, 08 286, 96	25, 611. 17 19, 407. 73	73,639.25	\$3,314.44 4,030.97	\$15, 259. 21 4, 701. 07	53,314.00	950	Sept. 17, 18 Jan. 31, 19	1918
	offeld S	44, 258, 58 84, 425, 20	1,688.17	37, 536, 73	83,483,48	6, 230, 41	25, 046, 42	262,122,52	950	188	119
	THE CO.	50,733,18	398, 58	43, 709, 03	94,840.79	2,834,65	22, 602, 78	120, 278, 22	950	-100	188
	Sardinal	42,007.88	3, 192, 29	30,549.85	75, 750, 02	10,263,04	17, 892, 20	103, 905. 26	950	183	100
7	Challenge	4, 824, 48	139, 22 926, 03	11,351.46	16,315.16 125,872.84	3, 139.03 6, 057.50	21, 123, 38	40,577.57	950	40	810
_	Clark, James II			100,00 101.81 81.35	101,81	2,759.44	50.44	2,840,79	950	Oct. 26, 15	17
7540 Conestoga. 7540 Cormorant.	Coney, Edgar F. Conestoga. Cornorant.	34, 607. 96	1, 222, 74, 575, 62	118, 08 67, 595, 52 41, 505, 79	118.08 103, 426.22 84, 894, 51	20, 282, 23	40, 466, 14	118, 08 164, 174, 50 119, 692, 57	950	10,	117
	Courtney, Warren J	***************************************		1,683.50	454			1,683,50	11	Aug. 10, H Sept. 2, H	117
7508 Curlew	Curlew Douglass Offs W	42, 984, 36	295.64	24, 382, 67	662,	1,760.26	26, 620. 93	96,043.86		Feb. 7,	-
	Dreadnaught.	8,507.61	2,301.14	2,872,58	23,644.57	1,321,71	22, 855, 85	47,822,13 2,478.06	Ш	120	12 12
7666 Edwards, 7517 Elder	Edwards, Wilbert A. Elder. Falcon.	49, 930, 33 N1, 653, 36	l,	268	738.	6,956.84	4, 281.71 25, 353.40 42, 140.81	4, 281. 71 111, 048. 54 255, 900. 24	980 098	Aug. 10, 16 Jan. 23, 18 Nov. 12, 18	1917 1919 1918
	Flach Flamingo	13,680,38 41,392,06 23,618,71	45.00	22, 378, 24	40, 743, 48 74, 031, 66 46, 041, 95	5,683.64	22, 664. 06 6, 605. 38	102, 168, 85 51, 872, 60	980	Sept. 10, 18 Feb. 12, 18	8161

			101.34	N87.67	10.080	8.8	75.35	36.54		Jan. 21,	W18	
į	Contract				•	2.3	42.82	8	<u>s</u>	:	***************************************	:
Ę	etec.	10,000,07	3.00	57,939,15	128, 212, 00	5, 202.31	23,810.78	157, 225, 18	8	/pr. 30,	616	
E	Oypanm Queen.			10,321.53	젍			ឌ			1017	
3	Honlopen		(X) . (X)	19.G	317.64	116.25	96.40	8			-	:
25	Heron	45, 117, 99	220.36	25, 518, 12	70, 885. 47	2,740.21	15, 397. 21	95	9 92	Oct. 30,	816	13
2	Hinton, John 18			1,818.18	1, NIS. 18			818		Aug. 11,	1017	
98	Hubbard, D. H. B.		1,600.00	1, 717. 17	3, 317. 17			3, 317. 17	ş	Aug. 19,	216	:
7678	Ismae W. T.		(A) (A)	47.15	47.15			<u>;</u> ;	<u> </u>	A 110 10.1	016	
7525	Kingflsher	71.659.23	1, 487, 25	18, 161, 91	121.308.39	3.352.15	3	175	026	May 27.	8161	12
7677	Knickabocker			1,887.89	1,887.89		33	6		Sept. 22,1	816	::
130	Lapwing	65, 818, 43	2, 887, 72	40, 957. 34	3	2,125.00	8,251.65	£:	25	June 12,	816	2 9
785	Lark.	89,644.46	5, 446, 48	88, 528, 53	613	7,410.82	<u>€</u>	146	e e	Apr. 12,	616	7
7678	Long Island			208.37	Š	24.68		8		May 8,1	716	
1673	Lowell			6.70	6.79		613.11	619.81		Sept. 29.1	7161	:
1674	Luce Bros.			31.10	3			₩.		May 20, 1	4161	
679	Lykens		1, 461. 47	39, 733. 92		15, 536. 66	55, 626. 66	112, 358. 71		Nov. 10,1	116	0 0
Ŧ.	Mallard	83, 748. 74	2, 116. 40	68, 651.38	516.	ž	\$ \$	ģ	920	June 25,1	6161	
200	Mansfield, F., and Sons Co	:	:::::::::::::::::::::::::::::::::::::::	195.60				195.60	1	June 5,	1617	
7603	McKever, Edward J.		<u>:</u>	90 91		131.17		131.17	<u> </u>	Way o,	1161	
2 2	Mexical C. II	:		9 2				1 2		Mary 26,	210	
7659	Mendota (ex-Concord)	<u>. </u>	179 13	15 008 84		422.07	30.978.99	9		Nov 90.	161	12
7686	Messick W. L.			8	8		7,257,75	324		Anr. 7	1017	
7687	Nahant		211. 73	7,747.26	958	642.00	2	8		Dec. 1.	216	27
7507	Oriole	51,284.47	94.49	138	86	5, 666.98	20, 171. 78	₹9	920	Nov. 5,1	8161	13
7688	Osborne, Chase S	. :		.;;	ç	236.12	1.70	ä		Apr. 16,	8161	9
1529	Osprey	26.	82.96	9	8	98.17	3,088.26	23	950	Jan. 7,	616	13
700	Owl	62.369.97	1,715.08	57.	38	9, 780.18	41,305.54	ģ	056	July 11,	818	12
26.0	Dalmor T	8 1	358.77	3	3 9	1, 516. 13	200 (M	į:	:	Sept. 17,	AIAI	
7516	Partridge	ğ	1 208 63	120	1		9	9		Turne 17,	010	
7527	Pelican	70,856.55	466.10	37, 423.63	\$	3,371.60	ğ	9	93	Oct. 10,	8161	2
7546	Peacock			က	က	ŧ	8	816.	920	Dec. 27,	616	21
753	Penquin.	76, 194. 82	162.44	48, 457, 25	124, 814, 51		26, 391. 81	155, 739, 74	8	Nov. 21, 1	8161	ឌ៰
7547	Pigeon	28 878 92	141 02	35	38		į	8	9	100. 100.	1018	, •
7512	Plover	2000	3			125.00		125				
28	Pontiac	:	•	ci	લ		:	લં	<u>:</u>			
7515	Quail	. 36.36 . 36.38	885.76	47, 887. 65	138, 369, 67	10, 110, 00	8	ឌ្គ	28	Apr. 29,	6161	25
319	Renger	8		Š	313	ģ	į	8	3	ئ⊳	2181	2
7549	Raven						32	3	28	1		
7548	Redwing	61, 250. 73	1, 121. 42	92, 453. 26	154, 825. 41	4, 392, 00	≅ €	\$6	98	5,5	6161	ឌ
2503	Robin	30, 902, 66	574.27	25, 887. 53	57, 364, 46	11, 240, 06	61, 972, 34	130, 576, 86	956	Aug. 28,	1918	ន
196	Ross, Sadie.			155	33.		œ e	8	:	<u>;</u> ,	2161	
9/0/	Shenandoan (ex-mackett, F.V.).			ş	Ş		10, 050, 12	14.28.30		-1	1 9161	3

1921—Continued.

	NAV	Y DEPARTMENT APPROPRIATION BILL, 199	23
	Months in com- mission.		
	Date of first commission.	Sept. 22, 1918 June 1, 1918 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919 Sept. 27, 1919	************
	Ton- nage,	500 500 500 600 600 600 600 600 600 600	
	Total maintenance and opera- tion.	2, 425, 58 9, 100, 85 6, 100, 85 9, 158, 81 3, 95, 43 100, 98, 100 100, 98, 100	7, 451, 349, 98
Ranairs and	alterations to ships, including equipage.	88.88.88.1 1. 635.1 1. 635.88.88 1. 635.88 1.	1, 724, 793. 47
	Equipage.	\$159.8 \$159.00 \$25.0	338, 520, 95
	Total operating expenses.	\$650.24 100.85 6,145.81 284.73 10,425.50 110,425.50 110,425.50 110,635.24 130,600.60 110,635.24 130,600.60 110,635.24 131,035.24 130,600.60 130,600.60 131,037.97 147,037.97 147,037.97 147,047 147,047 147,047 147,047 147,047 147,047 147,047 147,047 147,0	5, 388, 035, 56
	Stores issued, including pro- visions and medical stores.	\$60.24 \$60.24	2, 366, 999, 32
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$10.00 \$1.43.81 107, 143.83 104, 566.32 1, 486.32 1, 486	182, 187, 15
	Accrued pay.		2, 838, 849, 09
	Name of vessel.	MINE SWEEPERS—continued. Sparts Sparts Starling Starling St. Co., No. 2. Starlong St. Co., No. 2. Starlong St. Co., No. 2. Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Swallow Warbler War	Total
	No.	2161 2163 2171 21165 2117 21186 7697 7697 7697 7697 7698 7698 7698 76	

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			Title C.							Status.1	
Z	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
×	MINE SWEEPERS.										
Avocet		\$17,085.77	\$158.80	\$13,821.29	\$31,065.86	Z,	\$5,602.89	\$38, 716. 70			
Auk		1,337.00	410 32	1,527.39	2,864.39	1.35	16, 090, 27	18,956.01	:	5	:
Bobolink		14, 789. 52		18, 534, 96	33,324.48		797. 61	34, 363. 64			
Souker	Bouker No. 2.	11 902 08	310 60	0 424 08	12.00	•	309.71	22 818 56		-	28
ardina	Cardinal	13, 422, 54	324. 32	6,285.33	20,042,19	•		20,058.28			
hallen	Challenge	9,240.77	72, 70	6,379.09	15,692.56		4, 212. 40	20,383.20		Ī	
onesto	Conestors	12, 094: 01	37.00	4,702,10	4, 739, 10		700.00	4,048.78			82
ormora	Cormorant	15, 462, 62	477.70	11,301.45	27, 241. 77		382.81	29, 472, 02			
Juriew. Presidue	Curiew Dreadnaught	×Ĉ	132.26	1,984,99	2,117,25	75.37	16,957.61	2,963.70		76.	
Sasthan	Easthampton	:			,		97.14	97.14			88
Eider	•	11,044.85	233.18	12, 378, 99	23,657.12	963.62	180.41	24, 801. 15			
Pavorite	Favorite	_:		20, 200. 00	on voza (77	10 MOL	38.88	3.63			8
Pinch.		19, 042. 54	14.00	14, 606, 57	33, 663. 11	6, 189, 99	4, 150. 28	44,008.38			:
Flamin	Flamingo.	14 230 78	530 05	927.36	22,36	135	1,606.75	2,530.45	:	26.	
Jenesee	Genesee	12,317.80	6, 726, 32	2, 995, 42	22,069.54	3.53	850.86	22,963.93			
Trebe.	Grebe	14, 393. 43	115.48	8, 161. 23	22,670.14	281.46	304.61	23,236.21			
Heron.	Heron	16, 410.00	106.70	16, 115. 72	32, 632, 42	1,007.19	4,714.23	8, 35 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	:	-	8
Zingas	Kingfisher	<u>:</u>	315.27	13, 932, 21	28, 240, 64	778.37	22.69	29, 541, 70			3
Apwin	•	14, 447. 29	201.28	12, 406. 66	27,055.21	757.82	14,865.04	42,678.07			
Lark.	Lark		008.40	22,780.40	96,330.08	1,048.47	182.87	28,000,82	-		:
Mallard	Wallard	14.067.43	PE -1007	26,896,57	40,964,00	260.38	111.61	41,835.87			
Mendota	•	<u>:</u>	02 000	5, 472, 75	5, 472. 75	17.78	1,431.70	6,982,21	:	:	83
Januar .	Ortole	14, 044. 42	732.30	375.90	375.90	1.35	23 280 59	23,41,35			8
Owl	Owl	14, 159.08	223.00	9, 258. 60	23,640.66	1,358.01	5, 804. 50	30, 803.17			:
	¹ All mine sweepers in full commission 92 days except as otherwise noted	11 commission 92	days except as	otherwise note	Ġ.	Reserved.	<u>ت</u>	Credit.	4 Reduced	roed.	

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	out on.	8 8888 8 8
	Days out of com- mission.	
Status.	Operating with reduced complements in reserve or ordinary.	88 88 88
	Days in full com- mission.	
	Total main- tenance and operation.	に
	Repairs and alterations to ships, including equipage.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
	Едиръке.	20, 918, 11 969, 42 96, 98, 42 20, 762 20, 762 20, 83, 73 20, 83 20,
	Total operating expenses.	815 168 16 29 169 168 16 29 17 17 17 10 19 19 19 19 19 19 19 19 19 19 19 19 19
	Stores issued, including provisions.	85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$5.5.8 \$20.24 \$20.24 \$10.10 \$20.24 \$20.25
	Accrued pay.	88 88 88 88 88 88 88 88 88 88 88 88 88
	Name of vessel.	MINE SWEEFERS—Continued. Ortohan Peatridge. Pelican Pelican Peacock Pencock Pe
	ö Z.	174.5.16.17.17.17.17.17.17.17.17.17.17.17.17.17.

VESSELS ON SPECIAL DUTY.

Mr. Kelley. The next is converted yachts and patrol vessels. Admiral POTTER. In 1915 we had a total of 16 vessels. Some of them were in commission and some out. Against them we had harges in 1916 amounting to \$590,332.79.

Mr. Kelley. What did the converted yachts cost us in 1921?

Admiral POTTER. The total charges were \$3,614,995.40.

Mr. Kelley. And for the first three months of this year!

Admiral POTTER. \$978,068.63.

Mr. Kelley. Considering the lower cost, we are probably using pachts more generously than last year, are we not?

Mr. OLIVER. Why not let him answer as to 1921 and 1922 expendi-

Mr. Kelley. That is what he is doing now.

Admiral POTTER. If the expense continued at that rate, it would **be \$3,900,000** for the entire year.

Mr. Kelley. You may insert at this point the table covering 1916,

1921, and 1922, and the first three months of 1922.

Admiral POTTER. Yes, sir.

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Months in commission.	Commis- sion in reserve.	3 273 2 2	
Months i	Full com- mission.	3 243 3 3	
	Date of first commission.	192 May 14, 1898 694 June 1, 1898 654 June 1, 1898 654 June 30, 1898 154 June 30, 1898 1576 May 20, 1898 158 12 159 Apr. 13, 1888 152 Apr. 13, 1888 152 Aug. 18, 1898 152 Aug. 18, 1898 152 Aug. 18, 1898 152 Aug. 18, 1898 155 May 16, 1898 177 Apr. 11, 1898 180 Apr. 11, 1898 180 Apr. 11, 1898 180 Apr. 11, 1898 180 Apr. 11, 1898	
	Tonnage.	192 594 594 594 164 178 375 150 150 360 866 830 875 875 876 876 876 876 876 876 876 876 876 876	***************************************
	Total maintenance and operation.	\$800.45 9, 192.24 19. 192.24 19. 192.24 19. 192.24 19. 198.20 19. 198.66 19. 19. 19. 19. 19. 19. 19. 19. 19. 19.	737, 915. 99
Renairs and	alterations to ships, includ- ing equipage.	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	
	Total operat- ing expenses.	\$704.72 84,246.01 84,286.28 4,280.02 1,467.23 16,137.16 777.16 1,634.89 1,6	***************************************
	Stores issued (including pro- visions and medical stores).	\$107,72 2,870,69 35,475,75 673,78 3,28,22 800,74 31,86,20 45,114,58 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86 9647,86	
Title C.	Public vouchers (including commuted rations).	\$507.00 1, 254.32 1, 254.32 383.82 991.80 991.80 991.80 911.80 1, 275.05 1, 283.35 1, 282.60 983.00 1, 283.55 1, 283	
	Accrued pay.	47, 717, 98 123, 286, 83 47, 688, 81 60, 448, 93 47, 136, 87 326, 402, 42	
	Name of vessel.	VESSELS ON SPECIAL DUTY. Judical Dorothea Eagle. Eagle. Eagle. Eagle. Eagle. Eagle. Mayflower Mayflower Mayflower Mayflower Scorpion. Stanker Sylph. Wasp. Vixon Wasp. Total	Total

	Months in com- mission.				:			:	:					:		:				:				:	:				:				
	Date of first commission.		Anr 18 1917			July 19 1917	July 27, 1918	May 14, 1918	Apr. 16, 1918	SEPt. 18, 1918	May 17 1017	June 5 1917	do.	Jan. 15, 1918	Oct. 17, 1917	June 29, 1917	Sent 22 1917	June 30, 1917	Oct. 12, 1917				May 18, 1917						May 31, 1917	July 20, 1917			Aug. 19, 1918 Oct. 13, 1917
	Ton- nage.							182			:	:			i	2			8		•	, c			į		200	બ	Ì	9	. 7	1,00	: :
	Total maintenance and opera- tion.		27 710 OK	200	6, 118.39	116.71	49,922.40	88.4	86 86 86 86	28.00	1,550	3,250.5	2,622.46	2,108.13	18,036.30	8.98					1,528.00	18, 724, 50	8.87	3,948.53	1, 473.91	88	38	41, 776, 31	2, 408. 29	2,376.65	4, 880. 85 80. 19	14,618.65	1,586.10
Denefer	siterations to ships, in- cluding equipage.		SC 710 05	475.01		1 28 51	42,366.91					610.45		1,784.21	253.28	:	1 272 59	300, 197, 64	642.36	16, 504. 41	781 59	10, 175, 21	88) 0.0		20, 840, 13			60.19	549.4	288 286 286 286 286 286 286 286 286 286
	Equipage.				\$150.20		1,673.98	3.19					2,622,49		885.00	4,774.28				40.30 40.30	10.64	5			1, 473.91	8	30.00	3,929,70	`			480.00	1,007.30
	Total operating expenses.			\$15.81	5,959.19	18.30	ū	•	86.8	-	-7-	- 6		323.92	16,947.91	2, 212. 62	5.5 5.5	1 067 84	9,687.61	3, 250. 47	1,328.08	8 549.38	200	3, 943, 53		18.83	11 33	17.006.48	2, 403. 29	2,376.65	4, 820. 30	13, 580, 21	2,914.69
	Stores issued, including pro- visions and medical stores.			\$15.81	5,959.19	18.30	5,881.51	2.70	86.65	200.00	1,50	2,648.41	.,	320.92	16,941.79	2,182.29	14:45	1 067.82	6,221.62	3,250.47	1,528.08	37.00		28.95		28. AT	11.33	11.557.09	2, 403.29	2,376.65	4, aug. 38	13, 589, 21	1,00.88
	Miscellaneous expense, including commuted rations.													83 .00	6.12	SS .08			3, 465.99			8 515.38		1, 602. 50				243 99			OLE. W		2, 225, 71 62, 00
	Accrued pay.																							\$2,314.08				5, 205, 40					
	Name of vessel.	VESSELS ON SPECIAL DUTY.	Actus	Adelant	Adirondack	Admiral	Advance.	Aileen	Akela	Alcodo	Amagansett	Aphrodite	Arcady	Arctic	Arcturas	Arlentis	Aurora	Aztec	Вагледате	Barnett	Bella	Berkshire	Bradley, G. H.	Breakwater	Brown, Albert	Combridge	Caswell, Herman	Chesa peake.	•	Corona	Courler	Cytheria	Dantzler, Bessie H
	ó Z		8702	8703	25	2 2 2 2 3	8706	- - - - - - - - - - - - - - - - - - -	1001	200	1036	9	8707	355	200	36	103	200	8712	223	25	1113	8717	8118	9	622	1462	8722	8728	87.78	1230	1250	8716 1260

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21, 1918 16, 1918 1, 16, 1917 7, 10, 1917 1, 13, 1917 1, 22, 1917 1, 15, 1917	2,8	& 1.8 8.4.	r,-,ii, 8, r,o	1. 22, 1917 7. 21, 1917 7. 22, 1917 7. 22, 1917 7. 20, 1917 7. 20, 1917	- 8 × × × × × × × × × × × × × × × × × ×
2,600 Apr. 1,250 May 520 Apr. 8,800 Apr. 1,use	May 575 Apr. 710	; john ; jhwi	and I in inc	May 161 Apr.	229 June 390 June 152 Aug. 302 June 441 May
	2, 108.12 2, 772.20 114.56 25, 438.83 22, 851.19 6,381.19	జగభక్షేష్లోత్య లన	2, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	25. 48. 30. 48. 30. 48. 30. 48. 30. 48. 30. 48. 30. 48. 30. 48. 30. 48. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30	20, 911, 53 3, 441, 44 31, 118, 75 31, 118, 75 4, 600, 63 1, 910, 97
63. 52 466, 546. 58 7, 445. 24 1, 414. 42	46.40 171.99 6,735.67	98.52 468.03	1,248,40 63,18 5,791.10 3,213.84 6,24	13,004,78	2,731.71 1,892.55 1,896.28
	2,526.06 22,16 40.26 40.28 605.39 61.08	27.50	2,624,63 2,673,79 61.40	65.00	2, 474.31 2, 474.31 890.23 15.69
2.70 2,421.91 14,467.89 15,988.26 115,988.26 115,988.26 115,888.26	1, 583.06 2, 750.04 2, 938.33 25, 283.33 15, 510.13 6, 248.21	2, 468, 90 2, 468, 90 170, 61 61, 861. 84 1, 371. 44 21. 48	1.54 425, 287. 18 1, 251. 33 199. 12	28, 28, 28, 28, 28, 28, 28, 28, 28, 28,	20, 730, 93 3, 748, 43 42, 728, 73 20, 228, 73 4, 000, 67
2. /U 106, 095, 95 4, 241, 91 14, 467, 89 292, 07 15, 583, 17 664, 70		27.55 28.00 2,468.90 170.61 831.42 1,371.44 3.48	133, 128, 80	234.46 286.55 48.504 12, 105.42 2,341.12 18.60	468.72 3,448.43 12,807.28 29,228.22 4,000.67
6, 707.08	270, 19 28, 35 5, 730, 52	60, 730. 42	13,665.64		78.00
167, 250, 10	18, 309. 30	•	278, 502.74	24, 343.13	28, 739. 79
Nagara Notalia Nombarel Old Colony Onwers.	Parthenia. Patchogue. Philips, David K. Piqua. Pecemoke. Porpoise (av-Mosehead).	Priscila Raleigh Rambler Remlik Romer Rogday Sannee	Satellite Satilite Satilite Shady Shady Side Shady Shady Shadi Shalla Springfeld Springfeld Springfeld Springfeld Springfeld Springfeld Springfeld Springfeld	S. P. 247 (ex. Fullon) S. P. 287 (ex. Fullon) S. P. 286 (ex. Margaret) S. P. 467 (ex. Sence) S. P. 467 (ex. Sence) S. P. 467 (ex. Margaret) S. P. 524 (ex. Margaret) S. P. 582 (ex. Margaret) S. P. 582 (ex. Margaret)	S. F. 700 (at. Fawinee). S. P. 839 (ax. John L. Lawrence). Sultana. Sultana. Sylph. Tramp. Tramp.

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			Title C.				Renairs and					
og Z	Name of vessel.	Acerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	f first ssion.	Months in com- mission.
	VESSELS ON SPECIAL DUTY continued.											
2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Venetia. Vergalu. Vizon	\$155,005.81	\$15,630.67	\$3,716.10 4,981.26 126,676.08	\$3,716.10 4,981.26 297,312.56	\$1,024.95 279.17 14,217.11	\$2,185.90 3,705.16	\$6,926.95 8,965.59 322,897.54	280 128 808	Apr. 1	15, 1917 16, 1917	
88	Warondah	3		1,801,48	1,801.48		1,125.85	327	190		1917	****
2	Wakida		***************************************	3,468.01	3,468.01	1	**************************************	168	82		1917	
208 613	Wanderer			2,616.87	11, 450, 67	****	3, 705, 61	391.	362		1,1917	
Şž	Wenonsh			11,400.90	11,400.90	754.67	2,105.89 1,065.28	107	399		7161,	
88	Xarifa	47 047 79	50,00	10 635 79	149.69	12.25	1 677 60	199	378		1918	
814	Yankton	****		42, 148. 46	42, 148. 46		2,499.70	45,149.56	975		1898	
83	Zoraya		3,78	15.00	209.05	***************************************	1,880.55	12.00	28		1917	
	Total	1,001,008.06	328, 162, 82	993, 467.32	2, 322, 638, 20	198, 150, 33	1,004,206.87	3,614,995.40				

First quarter.)

			Title C.							Status.1	
Š	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
8706	Advance			\$1, 634. 95	\$1, 634. 95	\$117.50	\$275.35	\$2,027.80	92		
33	Arctic		\$22,32		22,32		77 470	12			
8708 8710	Ardent.			38.7.	28.2			7.7	92		
8713	Barnett Bella						7, 124, 57	7, 124. 57			
1238	Corsair			21.00	21.00	96 76	<u>:</u>	22.2			
82.8	r, Bessie H	63 454 40	508 31	5 026 14	0 806 78	2,369.15	1 037 33	2,389.15	8		
8603	Eagle	40, 202 to		** .000 to	2 3 3 3	2 mm (*	•	04.11	3		
2000 2005 2005			193 92	15.36	15.36			15.36			
200		45.00 22.860.40	88.88	1, 229, 87	1,323.75	853. 40	52 054 14	2, 177, 24	282		-11
928	Johnson, Catherine	1.567.07		55.27 8.88	2, 550.20	115.50	20.80	2, 550, 20	26		
8008			: :	19, 842, 76	1,74	117.13	5, 184, 39	118.87	8		
618	•	<u> </u>	204 903 80		204, 903, 89	97.65	588.96	204, 903, 80			
8760	Naushon		20 cone (2.67				4.67	4.67	8		
8761 8762	Niagara Nokomis	40, 416. 15 6, 426. 45	217.83	9, 733.23 190.80	50, 367.21 6, 711.57	4, 326. 73 4, 738. 36	26,885.22 163,981.28	81, 579. 16			%
8763	Nonpareil Parthenia						22.56 0.02	\$ 22.56 .02			
8788	Patchogue		40.00	2, 452.15	2, 492. 15		931 04	2, 492. 15		<u>.</u>	2
1691	Pocomoke	3, 930.36	25.20	587. 20	4, 542. 76		458.67	5,001.43	88		
877	Porpoise (ex-Mooseneed)		.78	4,634.71	4,004.71	3	6.05	6.83 6.83	22		
ş	Santee			8 8 21	18.31			8.31		<u>:</u>	
	71	All out of comm	¹ All out of commission 92 days unless otherwise shown	nless otherwise	Bhown.			*Credit.			

1922—Continued.

ı	# 3.6	;:	: ; :	: ; :	: 2 :	: :
	Days out of com- mission.				8	
Status.	Operating with reduced complements in reserve or ordinary.				23.	
	Days in full com- mission.	82				
	Total main- tenance and operation.	992, 920. 60 11, 994. 80	960.76 12,386.66	36, 976.01 583.68 23.58	8,596.66 151.08	978, 068. 63
	Repairs and alterations to ships, including equipage.	\$2,602.03	22.00 22.00 24.00 25.00 25.00	436.54 6.72	807.60	205, 729. 42
	Equipage.	\$85.02 1.35	424. 47	981.68 571.58	17.60	105, 642. 71
	Total operat- ing expenses.	\$90, 233. 64 11, 993. 45	11, 131.90	35, 558. 79 5. 38	547.68 1,173.63 8,596.96	666, 696. 50
	Stores, issued, including provisions.	\$30, 128. 32 5, 772. 92	18.32 3,547.96	12, 732. 15	1, 173.63 8, 596.66	135, 379.99
Title C.	Miscellaneous expense, in- cluding com- muted rations	\$523.46	20.15	695.21 5.38		
	Accrued pay.	\$59, 581. 86 6, 220. 53	7, 563. 77	22, 131. 43	6, 875. 15	233, 470. 34
	Name of vessel.	Scorpion S. P. 467 (ex-Delaware).	S. P. Kik (et.John L. Lawrence).	Vixen Wachusett Wachusett		
	Š	8609 8782	£ 22 5	2202	8883 883 883 883 883 883 883 883 883 88	

Ir. Kelley. I suppose these vessels were hunting submarines I things like that, were they not, in 1917 and 1918?

Idmiral Potter. Yes, sir.

dr. Kelley. How many of these converted yachts did we have

1916 ?

Mr. REED. We had 16 of them in 1916. Mr. KELLEY. There must be 100 here.

Idmiral POTTER. Yes, sir; there are at least 100.

Mr. Kelley. Some of them run into quite a little bit of money.

Admiral POTTER. There are only a few in commission now.

Mr. Kelley. Do you happen to know why the expenses of the *1gara* should run for 1921 to \$788,385?

Idmiral POTTER. I am under the impression that she was overded preparatory to going down to Mexico, where she served on cial duty for a number of months.

Ir. KELLEY. What about the Scorpion? dmiral POTTER. She is at Constantinople.

Ir. Kelley. Is she a large vessel?

dmiral Potter. No, sir; she is a good-sized yacht.

Ir. Kelley. I notice she cost \$433,752.07.

Ir. REED. They put extensive repairs on her at Constantinople, I think that a part of that expenditure is undoubtedly represed by the pay of a considerable personnel that was stationed at in the neighborhood of Constantinople.

Ir. KELLEY. This is the major ship at Constantinople?

Ir. REED. Yes, sir.

Ir. Kelley. The item for the Vixen is \$322,897.54. dmiral POTTER. I do not know what her duty was.

Ir. Kelley. Do these vessels carry guns? dmiral Potter. About 3-inch guns.

TUGS.

Ir. Kelley. How many tugs did we have in 1916, and what was expense?

dmiral Potter. There were 50 tugs in 1916, and the total ense was \$1,020,403.08.

Ir. Kelley. How many tugs did we have in 1921, and what the expense?

Ir. REED. There are 145 in this list for 1921.

Ir. Kelley. What was the total expense? dmiral POTTER. The total expense was \$4,769,193.61.

Ir. Kelley. For the first three months of 1922 what was the ense?

dmiral POTTER. We had 113 tugs at an expense of \$1,144,295.58. [r. Kelley. At that rate, we are using tugs more this year than year, considering the lower cost?

dmiral Potter. At that rate, the annual expense would be 76,000.

Ir. KELLEY. You may insert your tables at this point. dmiral POTTER. I will do so.

Months in commission.	commission. Full com- sion in mission. reserve.			1898	1898	1898		1898	Dec. 20, 1891		1914	1898.	Nov. 2 1907	Aug. 24, 1912.	1808	1908	1908	1808	1888	1908	1808	Building	_	1808	1868	1808	Mar. 20, 1897	
	Total maintenance and operation.		\$5,812.34 10,150.01	1,754.41	6,827.07	15, 126, 93	50,563.84	34, 581. 48 702	8,042.74	5,300.93	21,074.01	13,372.95	73, 23, 28	65, 141.97	58,621.46	61,006.06	6,503,10	15,801.21	9,913.21	46,615.16	45,150.40	19.20	25.25	46,456.25	13, 105, 10 4, 546, 70	7,458.83	5,200.16	
Reneire	alterations to ships, includ- ing equipage.							2,858.1															45.8	-`·	3, W. C.	98.00	200	
	Total operating expenses.	ļ						31, 723, 19															502.87	38.5	9,118.0	1,169.45	8; 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	
	Stores issued (including provisions and medical stores).		3, 583 60	480.40	1,936.74	3,847.15	19,995.58	12,867.33	1,500.88	2,665,05	5, 438.98	2,047.83	35, 386, 00	19, 721.25	15, 108. 72	18,984.22	1,610.1	5, 196. 27	2,601.42	17, 120, 53	19,040,78		3	Ŋ.		1,166.45	ŝi	
Title C.	Public vouchers (including commuted rations).		865.00		1,672.72	312.67	125.13	241.31			1, 533.09		2, 135, 46	91.08	3. 3.	3.5	1.120.01	2,381.97	:3	744.32	200,10		486.7	2.45.2	Š		W =	
	Accrued pay.					\$9,728.22	30,050.13	18,614.55			4, 888.34		32, 123, 40	33, 229.46	21, 843.04	21,431.97	OR . PT. 120. BO	5, 490.81	4, 477. 57	24, 985, 45	20, 803, 17			30,506.08				
	Name of vessel.	TUGS.	Accomac	Alice	Apache	Choctaw	•	Iroquois	:	Modoc	Mohave	Mohawk	Navalo	Ontario	Osceola	l'atapaco	Paume	Pawtucket	Penacook	Partia	Piscataqua	Pocabontas	Pontiac	Potomac	Powheten	Rothet	Beginner	
	o X	;	255 252	524	25.2	519	229	38	505	200	25	228	8.5	55	8	38	25	13	3	;	7	3	è	3	3	12	ş	

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N, 198. 31 11, 139. 79 19, 185. 98 7, 472. 27	12, 537. 22	391, 023. 03		
	Wompatuck	Total	Equipage	Total

	Months in com- mission.		_	e	oc. n	: :	13	<u>:</u>		or.		2	:					-		ge.	*	2		2 2		12	2	
	Date of first commission.				Dec. 5, 1918			July 1, 191	Mar. 14, 1917	June 8, 1918	Aug. 20.19	Aug. 26, 1918		June 2.191	June 22, 1918			July 1,1911		Aug. 2, 191	Oct. 29, 192	July 6, 1898	Nov. 18, 19	Nov. 4, 19	Feb. 18, 192	Oct. 20, 10	July 1, 101	July 1, 16
	Ton- nage.			<u> </u>	000			161		!!	000		000		450			198	164		Ť	702	<u>-</u> -	-	-	-	200	.000
÷	naintenance and opera- tion.	 	100 000	119, 500. 07	103, 176, 86	3,560.32	105, 090. 37	22,548.84	77, 409. 12	6,341.56	54.00 104.197.87	.13	131, 762.35	2, 108. 16 121. 00	2,777.53	1, 277. 19	26, 174, 65	19, 505. 60	18, 460.39	8	2; 36; 36;	7,78,88	138, 906, 82	96, 873. 98	97,22	25, 280, 22 26, 026, 71		元章は
Repairs and	alterations to ships, including equipage.	; — į	00 001	25, 683. 81	32, 596. (8	42, 523. 45	21,309.54	11,612.78	23, 950. 41	4, 423.07	10, 713, 10		18,320.90	28.32	21.00		8	19, 095, 15	Ŕ		gi	27, 807. 14	g	į		1,90,4	٩Ę	4
	Equipage.		8	15, 783, 59		3, 270. 12	23, 498. 37	2, 183, 85	2, 181.27	172. 92	20.007.04	(19, 605.35	96.5	2, 101. 10		521.30	327.43	434.18	ø		3,950.55	g		8		į	
	Total operating expenses.	:	8	į	Ė	38	ž	8, 752. 21	Ë	1,745.57	73.477.73	. 13	83,836.10	10.02	3	1, 277. 19	15, 655, 00	æ,	9,785.06		8:	43,911.20	g	į	g	Ė	É	
_	Stores issued, including pro- visions and medical stores.	: !	200	56, 456, 57	39, 016. 08	2,372.92	50,000.78	8, 752. 21	40, 23%. XI	1,745.57	38, 927, 92	13	47, 45K. 95	104.02	26, 474.01			Ż	2756.08		녉	14,610.26	g	Ź	g	į	٦į	į
Title C.	Miscellaneous expense, in- cluding com- muted rations.	_	_	\$466.53	1,006.00	10.00	1,281.68		1, 748, 05		411.66		819.90		5K3.52	1, 277. 19	112.76				88.88		75.02		2,258.04	2 25.52	22	8
	Accrued pay.			\$21,099.57	29, 685, 79	99, 372, tri			9, 200. 58		34, 138, 15	1	45, 557. 25		42, 507. 90						27,835.03	20,301.08	35, 42, 88	6, 801. 87	56, 821. 91	20, 642, 28		14 748 V
	Name of vessel.	TUGS,	Adjamachard con Undermitted	Algorina.	Alleghany (ex-Huron)	Aspinet-(ex-Apache)	Bagaduce.	atawoa (cy-noward ordan)	(Themung (ex-Pocahontas)	lio.	oncord	'onwell, Francis.	(arrabaset (tug No. 35)	Fearless	Fortune	Gorgona	Trampus (ex-Boothbay)	Hercules (purchased)	Hercules	#0#.	uka (tug No. 37)	rogues	Kalmia.	Kocamqua Kowa v dim		LAVELY (ex-Active)		A Property of the second secon
	o Z			7034		_					285 286 2.5		_			_	7202								_			

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1 2 4 2	2,000 to 100 to	26, 26 26, 162 26, 162	218.47	21.43	289.01 18,300.	5/8. Us 15, 084.	300.91	428.92 428.92 4.007.	000, 50 100, 808.	166, 15 163, 294,	357.65 34.468	780, 39 21, 475.	28,138	055.08 19,206.	310, 15 105, 756.	890. 40 139, 621.		877	Ė	35, 11 92, 435,	22,111.	118, 63 965, 54 21, 380.	154,004	25.25 26.25 27.25	386. 27 74, 991.	7707.	22.28 54.184.	1, 290.	3 5	1	g;	18, 18, 18, 18, 18, 18, 18, 18, 18, 18,	1,913.44 2,320,23
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	ontolin. ED6.	Natreeta Namett (ar-Carl R. Gray)	Navajo		Nottaway (ex-Accomac)	Oneonta	Ontario	Osceola Passaic (ex-Pontiac)	Patapaco.	Patuxent	Pawtucket	Penacook	Pentucket	Pierce, George F.	Pinola	Potomac.	Progressive	Kapido. Relief	Rocket	Saco (ex-mexander Drown)	Samoset	Sciota	Sonoma	Sotoyomo.	Sunnadin	Takana	Tatnuck	Tavernilla	Tecumseh. Tillamook	Tinicun.	Traffic	Triton	do.

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	Date of first commission.												
	Ton- nage.	1.00	SE .										
ŧ	Total maintenance and opera- tion.	8 33	6,77,1 1,040,1	18	2,517.31	13,244.84 15,536.36	1,039.87	8,053.80	14,412.70	6,540.41 6,540.41	12, 433, 73	7,146.07 638.59 230.49	2,017.30
Repairs and	alferations to ships, including equipage.		86.77.88 06.89.00 01.71.8			2,633.29 4,528.31	3,039.80	1,004.36	6,916.27	3, 507. 67 4, 020. 61	2,659.94	7,084.36	1, 894, 29 5, 846, 75
	Equipage.		107.00	8		995,00 825,11 132,77	338,35	102, 40	554.85	68.00 1.75 1,592.03	861.82	115.01	805.40 115.01 805.13
	Total operating exponses.	\$\$\$.93	380.46 280.92	18.5	2,517.31	9,616.55 10,182.84 4.38	7,720.69	6,947.04	6,941.58	1,891.99	8,911.97	28.28	5,581.13
-	Stores issued, including pro- visions and medical stores.	88.98	380.46	5 4	59.21	9,611.67 10,182.84 4.38	693.24 7,597.66	6,946.04	6,941.58	1,891.99	8,896.84	22.22 22.22 23.23	5, 345, 38 5, 412, 08
Title C.	Miscellancous expense, in- cluding com- muted rations.	 -		87.98	144.85	4.88	123.03	1.00			15, 13		119.10
	Accrued pay.												
	Name of vessel.	Tras-continued.		Tug No. 51.	Tug No. 53.	Tug No. 55 Tug No. 56 Tug No. 57 Tug No. 58	Tug No. 60 Tug No. 60 Tug No. 61	Tug No. 63	10 P 0	Tug No. 09 Tug No. 72 Tug No. 72	0	Tug No. 76 Tug No. 77 Tug No. 78	Tug No. 79
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		Dec. 6, 1919 July 1, 1911		Dec. 18, 1918 Mar. 23, 1920	1	0	June 18, 1918	-	***************************************
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23.60 \$3.08	1, 416.99	74, 190. 90	185	756.	839.	403.	384	210.	2, 928, 170, 48
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#12###################################	Tug No. 98	On Us		Wandank		Wompatuck	Wooley, James	r uma (ex-Asher J. Hudson)	Total
*********	Ta	55		Wa	-	_	7916 Wo	_	_

. 1922. [First quarter.]

		ARIMENI APPROPRIATION BILL, 1923.
	Days out of com- mission.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Status.1	Operating with reduced complements ments or complements or complements or confinary.	
	Days in full com- mission.	
	Total main- tenance and operation.	23.82.2 21.22.2 22.12.2 23.24.2 24.25.2 24.2 24
	Repairs and alterations for abits, including equipage.	21.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
	Equipage.	16. 22. 22. 22. 22. 22. 22. 22. 22. 22. 2
	Total operating expenses.	25.24.25 25.24.25 25.24.25 25.24.25 25.24.25 25.24.25 25.24.25 25.
	Stores issued, including provisions.	25, 45, 75, 75, 75, 75, 75, 75, 75, 75, 75, 7
Title C.	Miscellaneous expense, in- cluding com- muted rations.	83. 00 8. 10 1. 03 1.
	Accrued pay.	88, 773, 72 9, 530, 57 9, 530, 57 0, 912, 48 12, 484, 73 12, 483, 39 13, 483, 39 10, 483, 183, 49 10, 5045, 69
	Name of vessel.	Adirondack (ex-Underwriter) A ligerma A continuation of the
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100 S	15,800	4- 25	8	27,348	16, 111	10.370	22,		6,93	1,154	1,60	11,07	1,982	38,817	15, 775	16,097	 8	3	5. 8.	1,4	13,410	31, 975	7,550			3,28			6, 492		1,263	785	891	.,500	.,.	1,400	 	£ -	1.456	2,842	1,868		
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ansett (ex-Carl R. Gray)	diamonda.	Nottaway (ex-Accomac).	Nynck (ex-Sloux)	Ontario	Passale /ac Possiles	T OHARD)	Pataxent	Рампее		***************************************	************	***********	rge F				***************************************	Saco (ex Alexander Brown)	Segamore	Soloto	Sabago	Sonoma	Sotoyomo	Standish	Sunnadin	Tadousac.	Pavernille		Tillamook	Γraffic	Transfer								Tug No. 61				1 All tugs in c
Natisett (ex-	Navajo	Nottaway	Nynck (ex-	Ontario	Posenia / nr.	Pataneco (ex	Paturent	Pawnee	Pawtucket	Penacook.	0	Peoria	Pierce, Geo	Pinola	Piscataqua	Potomac	Rocket	Saco (ex Al	sagnamore	Spints of	chara.	onoma	Sotoyomo.	tandish	unnadin.	adousac.	Personille	ecumseh	lillamook.	raffic	l'ransfer	riton	ug. No. 50	ug No. 53.	ng No. 24	ug No. 55	uk. No. 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ug No. 61.	ug No. 63.	'ug No. 67.	rug No. 68.	
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1922 Continued.

			• Ordinary.	-	1				
			1, 144, 295. 58	200, 685. 78	92, 514. 19	851,095.61	464, 196. 48	9,738.98	377, 160.15
			5,622.90	6, 943. 51 3, 815. 30	1,220.00	18, 753, 95	9, 496, 29	673.95	8, 583. 71
-	- 92	***************************************	3,934,12	3, 892, 79	477.84	354.68	6,834.91	4.70	6, 146.31
			26,094.41	1,468.93	1, 421.59	24, 663, 93	14, 489, 04	119.02	10,055.87
			1,457.62	11. TO 10.	179.36	1,278.26	1,278,26		
	_		2,075.98	8 401 47	39.96	1,460.98	1,412.95	48.03	
	3 92		34, 733, 71	6,871.38	1, 104. 97	26, 757.36	17, 174, 24	38.08	\$9,545.04
	-		228.00	228.00					
			546.40	20.42		546. 40	469.80	76.60	
			2,591.85	2,591.85					
92			291.53	166, 55		28.20	124. 98	28.20	
85	+ 92		2, 953.21	2,120,29	102.30	2,350.63	2,349.07	\$1.56	
			1,334.20	1,334.20	00 16	1 476 40	1 476 40		
	\$ 92		1,412.01	62,34		1, 123, 53	1, 123. 53		
92			2,597.84	187.14	\$380.20	2,030.50	2,030.50		
			\$3,027.37 825.00	\$2,006.39 825.00		\$1,020.98	\$1,020.98		
Days out of com- mission.	Operating with re- duced comple- ments in reserve or ordinary.	Days in full com- mission.	Total main- tenance and operation.	Repairs and alterations for ships, includ- ing equipage.	Equipage.	Total operat- ing expenses.	Stores issued, including provisions.	Miscellaneous expense, in- cluding com- muted rations.	Accrued pay.
	Status.						!	Title C.	,

1 Credit.

. Kelley. Are these tugs coal burners?
. Reed. There are 31 oil burners and 7 coal burners.

MOTOR PATROL BOATS.

. Kelley. The next are motor patrol boats. miral Potter. We had none in 1916.

. Kelley. How many did we have in 1921, and what did they

miral Potter. The amount for 1921 was \$243,799.63.

. Kelley. I presume there were about 150?
miral Porter. Yes, sir; about 150.
. Kelley. What was the expense for the first quarter of 1922? miral POTTER. \$32,860.31.

. Kelley. We are getting out of the motor patrol boats pretty

miral Potter. Yes, sir; we have about 20.

. Kelley. At this point put in the tables for 1921 and 1922 e patrol boats.
miral Potter. Very well.

		Title C.				Repairs and	E			
	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores is includir visions medical	Total operating expenses.	Equipage.	alferations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
MUTUR PATROL BOATS.										
7701 A bdeek			\$106.45	\$106.45		00 000	\$106.45		Mor. 91 1017	
		\$22, 489. 83	÷ 00.	ส์	£ 2,059.94		% 88.83 88.83		May 30, 1917	
7703 Almax II			8.83 18.83		13.83		125		Double. 449, 1914	
			24.24 25.35				3 3 3		Aug. 17, 1917 Aug. 16, 1917	
_		219.27	9, 813, 96	10,	2,877.73	14, 577. 40	27, 488, 36	375	Nov. 2, 1917	
Arcadia			38.49 49.40			3.747.12	3, 747, 12	7	Apr. 17, 1917	
		17.43		17.43			17.63		Nov. 1, 1917	
Asp.		175.40	4	4 733.47	22.44	3. 427. 78	38		Apr. 17, 1917	
1072 Augusta			37.30	37.30			87.80		Aug. 11, 1917	_
I Rabette II			24.80	24.80	Z, 010. W		2, 28 28 28 28 28 28		July 24, 1917	
						966.23	88.88	81	Aug. 16, 1918	
_	-		8	. 25.			25.08	12	Oct. 22, 1917	:
			107.52	107.52			2 2	:	Mar. 14, 1918	
			3	3	3, 723, 76	5	3, 728, 75		Apr. 1, 1918	
			31.25	31.25			25.25		Aug. 24, 1917	•
Caprice		2,742.04	72 80	2,42			,	:	May 20 1017	·-
_			8	8			8			
_			2, 10	2.10			લ		July 24, 1917	•
_		A 000 80	8, 100 A	3,100	20,28	0,25,27	3,012	-62	MOV. 21, 1917	÷
Constance II	_	o, unos on	o, cor. 10	Po -000 (01	an 1000 (s.e.	1.862.27	1,002.27	12		
_			330,88	•			g		May 14, 1917	
Cony			227.38	_:			22,22	:		:
	-	75.00	30 000	88			889		Ame 0 1017	
Cayana		48.20	V, 542, 56	•				3	Apr. 4, 1911	

	• • • •		4, 1917	1, 1917		•	10, 1917			'n	ĸ.	26, 1917	•	23, 1917	<u>,</u>	Ξ,	•		5,∝	įŠ,	×	ò	2, 1917	3.5	Ì	-	'n,	9,5	17, 1917	<u>ب</u>	•	20, 1917	Ŕ
	574.96 574.96 575.00 72 Ang.	388	328	532.78 May	32	88	1.00 Aug.	22	0	13.60	438.37	249.91		40.00 Sept.	8	92	38	13. 50 May	31	3	200	3.23	800.00 Oct.	38	388	28	2	28	31. 68 Sept.	21	<u> </u>	11.55 Oct.	12
	10,364.82			528.80	7, 115, 68 8,			8		: :	3, 248.77 16,	0 :	*************	***************************************		***************************************				332, 50			640	1, 921. 61	8.83			9 6	, au	***************************************			
***************************************	720.76		.30					8, 281. 57	10.40		862.93	34.66								48.90				08.21	2,330,00			26.25					
1,128.01	5, 591. 08	30, 54	650, 12	3,98	1, 419, 45	52,80	1.00		201.02	13	12, 201, 67	215, 25	165, 47	40.00	85.90	12,36	8,50	13, 50	485.00	173.08	342, 68	81,59	2,800.00	50.83	38.7	41.25	51.79	365, 45	31.63	2,51	491. 42	11.20	13.17
1, 125, 01		30.54			1, 419. 45	52.80			187.37			215, 25	165. 47	40.00	85.90	12.36	8.50	13.50	985,00	173.08	90.62	81.59		40. 83		41.25		365.45	31.63	2.51	491. 42	11.85	13 17
	75.46					***************************************	1.00	***************************************	13.65		144.82												2, 800.00	00.6	8		51.79			***************************************			
											\$10,080.00												***************************************				***************************************						
Christian Commencer Commen	offibean califus catth M. III	Sithro Sitrabeth Silan	Elmasado.	un l'ai	Falce	Fantana	Get There	Gladiola	Grav Fox	Hebe		Hopkins (ex-Holland)	Hurst	uyrease	Isle of Surry	Jimetta	osephine	Toy	Karibon	Кетар	Lady Mary	Lynx	Marguerita	Mary	Mary Pope	Charles B	Minnemac II	Miramar.	Momo.	Music	Myttle	Natick	Natoma

1921—Continued.

_			Title C.				Ranaire and				
No.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted ratious.	Autoclianeous Stores issued, expense, in- including pro- cluding com- visions and muted ratious, medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage,	Date of first commission.	Months in com- mission.
X281 2677 2677 1786 1781	MOTOR FATROL BOATS—CORTG. Nettie Nightingale. Olympic Onset.	\$1,298,48		824.80 824.80 84.73 75.73	\$12.15 324.88 37.48 57.78 57.88 87.78 88.78	\$226.96		\$42.15 324.80 54.78 28.73 1,525.44		8,0	
	Paloma. Panama Patrol No. 5 Patrol No. 6 (ex-Bonits).			19.80 71.08	19.80	1, 473. 91	\$267.80	1, 473.91 19.80 71.08 867.80	118	*8°28's	
7809 7800 7800 7800 1969 1969	Patrin No. 10 (ex-Hilli, 5288) Patrin Pearl Perivalen Privalen Quick Silver Qui Viva Raagoo		\$430.44	168.00 34.45 5,513.72 10.00 56.84 134.80	168.00 34.45 5,944.16 10.00 134.80	1,150.57	1, 036. 50	8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.		Oct. 23, 1917 Aug. 22, 1917 May 26, 1917 June 22, 1917 May 21, 1917 May 19, 1917	
1974 1981 1986 7812	IIII			485.82 193.29 51.60	485.82 193.29 51.60	22.66	6,454.37	6,454.37 485.82 215.95 51.90		8,5,5,8,5	
7815				9.50	9.50	17.35		9.50			
2116 2006 2006 2006 2007 2007 2007 2007 200	See The S. P. 426 (ex-Sequoyah). S. P. 571 (ex-Pocomoke). Saxis. S. P. 706 (ex-Lexington II). S. P. 544 (ex-Sea Gull).		20, 40 20, 40 1, 30	62. 98 90. 23 90. 23 65. 58	882 822 822 11.28 80.1.28 80.28 80.28 80.28	8.80	100.91	668889-1-188 68888-1-188		7 1 1 1 1 1 1 1 1 1	

\$ 4. E. O. O. R. E. P.	Ahg. 2, 1917 Apr. 13, 1918 Sept. 25, 1918 June 25, 1917 May 18, 1917 May 14, 1917 Prec. 96, 1917		28, 1917 27, 1912 27, 1917 222, 1917 7, 1917	Aug. 3, 1917 June 25, 1917 Aug. 11, 1917	
			21		
1, 198.7 28 319.6 317.7 27.1 4 77.1 46 77.1 46	1, 296, 1, 1, 296, 1,	1,000.00	14, 40 63, 96 210, 79 210, 79 8, 86 8, 86	3,073.65	243, 799. 63
75.00	10.95	29.20	3, 42	4, 728. 10	75, 386. 55
1, 163, 62 741, 40	21.08		3, 45	3,25	56, 803. 95
2.08 175.35 22.68 8.00	57.75 71.50 71.50 81.70 11.296 40.00 1.00	1,000.00	14, 43 4,00 143,00 63,96 215,71	3,070.40 4.68 1,827.49	111, 609, 13
7, 62 319, 65 175, 35 22, 68 8, 00	57. 75 71. 30 71. 30 81. 70 3. 30 1, 286 1, 296 1. 00	23.79	143.00 63.96 215.71 .66	3,070.40 4,68 1,827.49	63, 775. 15
	99. 111	1,000.00	7,00		36, 455. 50
					11,378.48
B. P. No. 408 (4x.Navajo 11)	S. P. No. 1209 (ex-Ellen). S. P. No. 1209 (ex-Ellen). Sparrow II. Sparrow II. St. Marys. Sturany. Suranne. Tannwha. Thentula.	Taylor, A. B. Toad. Triune	Traveler Venture Victor Virginia Virginia Vision Welpose.	Wendy Wild Goose Zumbrota	Total

1922. [First quarter.]

		•																		
	Days out of com- mission.			:			:			÷					:					
Status.1	Operating with reduced complements in reserve or ordinary.			28	<u>:</u>		<u>:</u>				<u>.</u>				:		÷			$\Big]$.
	Days in full com- mission.					28		3		8	•		8		:	:		8		• Credit
	Total main- tenance and operation.		\$11, 287. 82	364.92	471.90	5,044,68	5,078.71	1,481,16	83	6, 230, 66	1. 2.1.	12	1.418.96	9	8	607. 17 06 30		972.21	32, 860. 31	
	Repairs and alterations to ships, including equipage.		86 , 830. 03	96.54	61.6	4, 486.24	400 69			1,886.19	11.42		47.04	35 35	22.00	00 S	88	300	14, 319, 82	Beerve.
	Equipage.		54 75, 10			83, 14	980 98	1.08	15.70	3		65.87	25.73					5.27	2, 340.46	
	Total operating expenses.		\$3,982.69	285.38	471.90	475.30	5, 075, 71		145.28	4, 249, 62	64 71	12.2	25.53					670.46	16, 191, 04	se shown.
	Stores issued, including provisions.		\$3,982.69		471.90	475.30	4, 716, 04		145.28	1,234.73	64 71	12.82	387.45			307.17		670.45	12, 488. 02	unless otherw
Title C.	Miscellaneous expense, in- cluding com- mutedrations.			\$295, 38			359. 67						38.08						741.78	strol boats out of commission 92 days unless otherwise shown.
	Accrued pay.									\$2,986.24									2,966.24	osts out of com
	Name of vessel.	MOTOR PATROL BOATS.	Aramis	Asp	Bayocean	Clarends	Commodore	Edallyn	Edithia		Kangaroo.	Marita	Privateer	ol Angel)	Rockport (ex-A)ax)	Sepano.	No. 280 (ex-Nevelo II)		Total	1 All motor patrol b
	, o		1301	1065	Ž	35	121	3	17	135	2	2 5	7807	1974	2813		Ş	ž]

SPECIAL TYPE OF VESSELS.

Mr. Kelley. Now, give us the figures for the special types of vessels for 1916.

Admiral Potter. Of the special types we had in 1916 10, at a total expenditure of \$1,771,557.50.

Mr. Kelley. And in 1921?

Admiral POTTER. Thirteen vessels at a total expenditure of \$5,673,923.08, and in the first quarter of 1922, 13 vessels at a total **expenditure** of \$2,279,682.20.

Mr. Kelley. At that rate it would make \$9,000,000 for special

types?

Admiral Potter. Yes, sir.

Mr. Kelley. Are you familiar with these ships?
Admiral Potter. Some of them I know about and some I do not. I see here a tender for the operative squadron that went down to Panama last year; that is, the Black Hawk; I see a repair ship and the air tenders Shawmut and Aroostook. As I say, the Black Hawk was a tender for the operative squadron that went to South America with us. Admiral Coontz can give you those types exactly.

Mr. REED. \$976,000 of the expenditures for the first quarter of 1922 are represented by repairs, which throws the actual rate

way up?

Mr. Kelley. That is true, and we would have to take that into eccount.

Mr. REED. Yes.

Admiral Potter. And the Columbia is in this year's list.

Mr. Kelley. How much did we expend on the Columbia before we decided to turn her back to the Shipping Board?

Admiral POTTER. For the first quarter the expenditure was

1229,767.02.

Mr. Kelley. You do not know how much additional will be renuired for that ship?

Admiral Potter. No, sir.

Mr. Kelley. Have you any idea?

Mr. REED. We probably have the data in the office now where it

pould be assembled.

Mr. Kelley. It might be of some little help to us, inasmuch as we will not have that ship again, and we would know how much was spent Then put in at this point the tables as to the special types. Admiral Potter. Very well.

Expenditures during first two quarters of fiscal year 1922 for the "Columbia," ex-" Great Northern."

[Includes only expenditures reported to Mar. 1, 1922.]

Accrued pay \$265, 652. 94 Miscellaneous expense, including commuted rations 1, 220. 17 Bores issued, including provisions 113, 008. 47 379, 881. 58 Total operating expenses.... Equipage 313, 532, 13 Repairs and alterations to ship, including equipage 216, 378, 94

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3			3

:	NAVY	DEPARTMENT APPRO	PRI
Months in commission.	Commission in reserve.	2 2	
Months in c	Full com- mission.	5555555	-
	Date of first commission.	4,413 Jan. 7,1890 12 4,000 June 7,1898 12 4,023 Apr. 16,1898 12 4,023 Apr. 18,1898 12 12,885 Jan. 15,1910 12 4,088 Aug. 21,1911 12,885 Oct. 4,1909 12	
	Tonnage.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
	Total maintenance and operation.	873, 342, 17 284, 470, 75 39, 580, 82 185, 010, 81 91, 161, 41 273, 013, 70 273, 012, 07 273, 012, 07 383, 689, 24 865, 970, 81 13, 575, 61 1771, 557, 56	2,214,446.88
Renairs and	alterations to ships, includ- ing equipage.	\$31,329, 15 35,591,73 20,491,73 20,491,79 35,285,06 35,282,10 16,719,81 10,605,32	
	Total operat- ing expenses.	\$73, 342, 17 253, 141, 60 39, 580, 82 147, 418, 14 70, 686, 68 70, 686, 68 227, 718, 40 224, 437, 14 224, 437, 14 224, 437, 14 224, 437, 14 224, 437, 14 224, 437, 14 224, 251, 00 2, 650, 29	
	Stores issued (including pro- visions and medical stores),	\$13, 973, 10 77, 167, 92 15, 021, 46 44, 400, 12 36, 400, 12 36, 113, 36 81, 783, 30 61, 833, 30 75, 710, 13 2, 660, 29 453, 081, 36	
Title C.	Public vouchers (including commuted rations).	\$1, 102, 43 4, 107, 00 2, 860, 96 124, 90 6, 420, 78 6, 420, 78 6, 420, 78	1:
	Accrued pay.	855, 206, 64 171, 1606, 64 101, 589, 36 101, 589, 36 34, 131, 66 150, 337, 605, 44 150, 337, 605, 44 207, 120, 69	
	Name of vessel,	special type. Albatross Baltimore Fish Hawk Hamilbal Leonidas Promethers San Francisco Vectal Total Total Total Feptupage	Total
	No.	85 85 85 85 85 85 85 85 85 85 85 85 85 8	08

	Months in com- mission.	222 : : : 2 : : : : : : : : : : : : : :	-
	Date of first commission.	Jan. 7, 1918 Jan. 7, 1918 May 15, 1918 Jan. 25, 1918 Nov. 15, 1980 Jan. 7, 1918 Oct. 4, 1909	
	Ton- nage.	13,413 14,500 17,7620 17,620 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500 18,500	
	Total maintenance and opera- tion.	81, 030, 228, 18 622, 884, 64 1, 389, 992, 18 35, 639, 91 43, 756, 82 84, 771, 38 1070, 636, 01 10, 771, 38 845, 386, 82 3, 548, 89 3, 548, 89	5, 673, 923. 08
	Repairs and alterations to ships, including equipage.	\$65,344.62 91,407.40 122,970.43 7,982.38 10,982.38 18,98.23 18,98.23 18,98.34 16,08.34 140,216.77 140,216.77 140,216.77 25,52.82 25,52.83	663,716.98
	Equipage.	\$77,000.01 42,456.21 120,748.96 9,319.74 9,388.05 9,058.30 47,206.39 42,180.27 60,620.02 11,469.73	389, 458. 42
	Total operating expenses.	8927. 874. 55 489. 031. 03 1,146. 272. 80 22,745. 19 3,026. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 43,486. 05 558. 399. 78 16,198. 62 558. 399. 78 727. 873. 04	4,620,747.68
	Stores issued, including pro- visions and medical stores.	\$199,095,49 178,444,80 464,281,14 37,157,54 3,020,87 43,486,08 186,388,35 16,188,62 211,698,62 211,698,62 211,698,62 211,598,63 211,598,63 211,598,63 20,11	1, 578, 484. 54
Title C.	Miscellaneous expense, in- cluding com- muted rations.	\$16,550,30 11,983,57 25,798,03 270,30 5,18 7,647,45 12,850,78 18,988,74	95,018.36
	Accrued pay.	11) 8712, 228, 76 298, 622, 66 656, 193, 63 354, 363, 98 354, 363, 98 (15) 432, 996, 31 492, 879, 44	2,947,244.78
	Name of vessel.	special type. Arostook (ex-Bunker Hill) Baltimore. Black Hawk Canonicus (ex-El Sid) Canonicus (ex-El Sid) Rostook (ex-Eldia) San Francisco. San Francisco. Shawmut (ex-Massachusetts) Vestal Vestult. Weight, A. Z.	Total
	No.	8815 8801 1157 11178 11475 114	

_	1
2	
•	-
	**

		Title C.							Status.1	
Mame of vessel.	Accrued pay.	Miscelaneous escapense, including commuted rations.	Stores issued, including provisions.	Total operating expenses:	Equipage.	Repairs and alterations to sable, including equipage.	Total main- tenance and operation.	Days in full com- mission.	perating with reduced complements in reserve or ordinary.	Days out of com- mission.
LAL TYPE.										
(ED)						41 , 304.	\$380, 722, 99			
	124, 659. 95	3, 736, 30	86, 332 .88	183, 729, 13	8, 449. 15	, 8, 8, 8 1, 4, 28, 1	196, 600, 80			
	70 775 48	26	21 201 87	181 088 61	90.00	188,725,45	185, 816, 45			
			i	٠.		176,199	176,190			
(8)	81, 032, 32		14, 416. 08	95, 448. 40	8, 232, 38	409.93	104,090,71			
8 (en-Massachusetts)	113, 488, 73	1,825.73	<u> </u>	<u>:</u>		. 4.	178,386.04			
			196.90	136.80	3, 130, 7, 13, 348, 15	153,033	168, 578, 62			
1	885, 380. 40	13, 999, 37	328, 196, 99	1, 222, 585. 76	80, 389, 55	976, 706. 89	2, 279, 682, 20			
8 IIV I	pecial type out	of commission	92 days unless	All special type out of commission 92 days unless otherwise shown	i		Credit.			

							Repairs and				
	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	
Leegelee E	SPECIAL NONFOWERED. Chittenden, John W Christine Section Superior Section 98.788	88.50	8600.67 2.38 6,271.01	\$660, 67 2, 38 6, 271, 61	\$121.11 \$22.11 39.19	8527.70 131.14 20.24 3,238.48	\$527.70 131.14 29.24 29.05 690.07 2.28 3.28 9,631.20 39.19		Sept. 28, 1917 July 18, 1918		
	Total		3.50	6,964.66	6,968.16	199, 40	3,926,65	11,094.30			

NAVAL OVERSEAS TRANSPORTATION SERVICE SHIPS.

Mr. Kelley. The next are the naval overseas transportation ships. Admiral Potter. In 1916 we did not have any.

Mr. Kelley. What did we spend on these in 1921?

Admiral Potter. In 1921 the total charges for the naval oversess

transportation service ships were \$443,803.

Mr. Kelley. There is a list above that; that is a supplemental I think that all of the totals appearing on pages 142, 143, and 144 should be added.

Admiral Potter. These are the figures for the straight ships,

\$1,794,740.54.

Mr. Kelley. What kind of ships are they? Do they have any

guns on them?

Admiral Potter. I think they had some guns mounted during the war for defense against submarines, and that sort of thing.

Mr. Kelley. But they are not fighting ships at all?

Admiral POTTER. They are supply ships and transports that were being operated across the ocean, and I think the bulk of the charges in here, if not all of them, represent delayed settlements on account of the vessels. I notice there is only \$13,000 for pay in that whole group.

Mr. Kelley. Then what is the total for the first three months of

1922 ?

Admiral POTTER. \$98,033.11.

Mr. Kelley. What has become of the rest of these ships?

Mr. REED. They have been turned back to the owners.

Mr. Kelley. This list, you think, is practically a hangover and it will come out almost entirely next year?
Mr. REED. Yes, sir.

Mr. Kelley. At this point put in the tables.

Admiral Potter. Very well.

			Title C.								
Ċ Z	Name of vessel.	Accried pay.	Miscellaneous expense, including commuted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	repairs and alcrations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission,	Months in com- mission,
	NAVAL OVERSEAS TRANSPORTA- TION SERVICE SHIPS.										
22 22 23 25 25 25 25 25 25 25 25 25 25 25 25 25	Absaroka. Alaskan		\$6. 80	53.89 153.66	160.89 8.80		\$4,063.69	\$3.89	12, 397	7,8;	
1883 1883				11, 899, 49	11, 899, 49		229. 239. 239. 239. 239. 239. 239. 239.	12, 129, 35	13,000	May 25, 1918	
25	Antilla			1, 180. 53	1, 180.53	00 000	9, 239. 13	10, 419.66		May 20, 1918	
185	Arizonan		82.28	425.71	509.74	4. 000. mg	30,690.50	31, 200. 24	19,419	Ang. 14, 1918	
<u>8</u> :			4,010,10	14 ×	4.018.13 10.18.13		10° 000	4.018.10	10.570	Sept. 29, 1918 Sept. 28, 1918	
1141	Buford. California		560.70	6, 667, 53	7,228.23	571.30	28.28 28.28 22.28	6, 890, 22	8, 583	May 14, 1918	
921 921 921	Canton (ex-Hercules)		17.00	6, 580, 53	6, 507. 53	45.00	157.63	6, 784, 33	13,910	18,	
823				10, 836, 01	10, 936. 01		2, 349, 79	13, 285.80	-	Oct. 25, 1918	
3	Cape Romaine			100.00	100.00		12.72		10,505	do do rois	
383			102, 45	3, 856. 17 208. 71	3,856.17		1,685.96	997		Oct. 5, 1918	
3 3	Cauto		70 °CT	22.87	2 13 13 13 13 13 13 13 13 13 13 13 13 13		10, 301. 13	22.87	9,8,6		
85	[al] ex-Marcaret)			56.45	506.40	`	18.84	525.24	11,300	14,	
222	Choctaw			7, 927. 48	7, 927. 48	% 17 %	2 835 23	7, 927, 48	3,800	4,0	
222			485.94	3.92 505.84	3, 92 991. 78	10.64	111.16	113,3	7,050	15,00	
33			1.67 19.02	4, 391.89 32.50	4, 393, 56	9.60	6 404	6.38	7,700	May 9, 1918	
	Dakotan. Deflance			98.95	56.66	15,75	204.00	219.79	14, 375		
25 Z	upiter)			285.15	285.15	1.80	690.68	266.95 12, 198.68	10, 562	Oct. 23, 1918 Aug. 30, 1918	

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		Title C.				Repairs and				
Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores Issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
NAVAL OVERSKAS TRANSPORTA- TION SERVICE SHIPS-contd.	٠٠,	1								
Eastern Chief. Eastern Light.		\$5,96	\$159.66	\$165, 62		\$6,649.28	\$6,649.28	9,606	Sept. 27, 1918	
Fastern Queen Eastnort		24.00	1, 568, 40	1, 592, 40		00.00	1, 592, 40	12, 106		
Edenton. Edgerombe. Edith		7.75	16, 828, 95	7.75 21.80 16,828.95	\$1,186.39	242.62	7.75 21.80 18,257.96	7,335	Dec. 5,	
Elinor Elinor El Occidente			70.62	70.62		356.22	356.22	8, 785	Mar. 30, 1918 Aug. 28, 1918	
El Oriente. El Sol Eurabe Evansville (ex-Lake Tahoe). Fairnont.		323.90	1, 888. 08 5, 35 5, 407. 41 53. 33	1,888.08 1,888.08 50.35 5,731.31 53.33	97.50	4,321.66 4,321.66	1,973.48	∞,5 <u>1</u> 5	Aug. 3, 1918 Sept. 21, 1918 Feb. 16, 1918	
Federal Frawh, Hermun C. Fresto Fridda		2,174.61	1, 694, 40 9, 104, 92 534, 09	11, 694.40	307	2, 662.91	1,694.40	12,600	2002	
Coneral Gorgas. Glen White (ex-Tidewater). Guantanamo. Hatteras.			3,545.88 1,688.79 119.25	3,045.88 1,688.79	20.47	3,42	9,3,645.88 122,8.21 122,67		: នាត់នាំ	
Hawalian Hickman Hilton Hoxbar Independence		670.30	11	9,66 670.30 597.40 3,083.93		704.75	1, 516-53 9.66 1,376.05 702.40 8,085.93		Nov. 16, 1918 Nov. 6, 1918 Nov. 6, 1918	
Indianapolis Invincible Iowan		73.92	90.45 226.67 6,231.58 68.34	98.45 225.67 6,305.50 149.50	102.00	2, 394, 52	96.45 225.67 4, 862.02 4, 474.20	16,900 15,942 14,375 7,050	Dec. 12, 1918 Cot. 17, 1918 Feb. 12, 1918 Apr. 12, 1918	Ш

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			Title C.				Repairs and	F			
%	Name of v	Accrued pay.	Miscellancous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission
	NAVAL OVERSEAS TRANSPORTA- TION SERVICE BUIPS -contd.										
1632 1633	Lake Pleasant Lake Port (ex-Penguin)		\$70.12	\$K3. 18 5, 222. 57	\$K3. 18 5, 292, 69	\$58.74	\$30.20	5, 449, 54	.400	× 51	
1636 1637			9F 7608	=-	11, 921, 15	97.00	1, 437, 03	2, 260, 59	400	Jan. 11, 1918 Jan. 25, 1918	
822	Lake St. Clair.	#3,640. %	66. 12 4. 00		., 28.98.50 28.99.30		1,759.06	3,785 10	11	Aug. 15, 1918 Oct. 31, 1918	
85 85 85 85 85 85 85 85 85 85 85 85 85 8			23.81	2,225, 5,575,83	2, 249. 64 6, 631. 07		1,026.06	26,284.01	300	3,5	
222 222			65.67	<u> </u>	97. 78 144. 90 10, 370. 08	9. 37	2, 760. 07	2,867.20 144.90 10,370.08	700	8: 2	
<u> </u>				227.25	22.25		615.40	837.25	880		
£23	Lake Worth		21.00	2, 962.01	2, 952.01 2, 467.02		499, 93 352, 82	9, 451, 94	,400	Nov. 25, 1915 Dec. 15, 1917 Feb. 26, 1918	
383	Lake Yahara Lake Ypsilanti Lancaster		17.37	25.35 27.95 27.95 27.95	158.28 19.28	14.85	2, 973. 66 2, 076. 20	3,037.40	,620	18	
1868 1868 1868 1868 1868 1868 1868 1868	Liberator Liberator Liberator Liberator		2.00	187.67	187.67 706.12	23.62	58.50	7, 780, 14	15,912	201-	2 - 1
555	Lucken bach, Edward Lucken bach, F. J Lucken bach, F. J		53.78	218.80 56,756.81 731.42			52, 996, 96 15, 686, 35 1, 953, 58	53, 185, 85 72, 442, 16 2, 738, 78	15,963		
66886E	Interbach, Tulis Loctenbach, Katrias Loctenbach, Katria Luctenbach, Watter A Luctenbach, Watter A Macora		6.30 15.75 163.21	39. 12. 12. 13. 13. 13. 13.	27.22 27.22		6,382.20 51.55 11,506.53 17,134.33	6,779,90 67,30 11,679,13 17,264,39	16,583 16,000 17,170 8,900	Aug. 15, 1918 May 18, 1918 Aug. 9, 1918 June 9, 1918 Aug. 19, 1918	

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	Panaman			168.25	168.25			168		2	8
200	Fanuco			2, 779. 47	2, 779. 47		343.57		8,060	Ε,	80
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	Ton- nage.		12, 200	5,6,5 5,6,5	(X) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0		15.942	19,120	12,23	2,2	16, 200	12,236	12,226		12,200	12, 185	12,200			2,2	12,200
	Total maintenance and opera- tion.		9, 533. 92		1,634.08	59.02	328.88	7,019.06	7.06	1,660.00	1.890.45	\$	5,949.35	22.46	4,072.09			3.73	£.5.	719.66	1, 232, 48
Repairs and	alterations to ships, including equipage.		1, 568, 54	278.48	1,629.70	9 610 6	C* OIR. #0	6, 821.56	7.08				2,619.30			15, 227, 85	1,962.87				897.61
	Equipage.		\$2,097.98	9.20		50 16					1.839.45	98.64					:				
	Total operating expenses.		\$5,867.40		52.4.38	29.02	328.83	197.50	07.087	1,680.00	8	:					13,721.43	3.75	£3;	719.66	39.95
	Mixellancous Stores issued, expense, In- cluding com- visions and nuted ratious. medical stores.		\$5,534.80	25.85	2.4.38 2.88.4.38	59.02	328.93	172.50	ac 18	1,660.00	8		3,330,59	224.46	4,072.09		192.	3.73	3.71	719.65	3.71
Title C.	Miscellancous expense, in- cluding com- muted rations.		\$332.60	3, 2, 9. 36 22. 08				25.00	180.04							8.00	13, 529, 06			1 7.17	20.02
	Aeerued pay.																				
	Name of vessel.	NAVAL OVERSEAN TRANSPORTA- TION SERVICE SHIPS CONTG.	Sixola. Skinner	Sudbury. Tanamo.	Toxan. Robert M.	Thurlow, Lowis K.	Victorious	Virginian	Wassaic		Wathenia	West Alseck		West Avenal	West Bridge.	West Chester	West Coast	West Compo	West Corum	West Ekonk	West El Cajon. West Escaso
	N O		2132	2777	2216	1227	2287	2292	225	2317	3 22	2323	232	8	2327	88	200	2	2386	24	66.00 77.77

5 June 18, 1918 5 Oct. 17, 1918 50 June 29, 1918	Auty 5	Mar. 29, Aug. 7,	June 18,	Sept. 17, May 22,	Sct. 23	25 Oct. 15, 1918 25 Oct. 30, 1918	Oct. 28,	175 May 21, 1918 205 May 22, 1918	Aug. 8,	50 Aug. 9, 1918	175 July 14, 1918	00 Aug. 19, 1918	570 Sept. 21, 1918 600 Dec. 30, 1918	
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76. 26 22, 001. 47		2X, 141, 37 22, 86 261, 94		95.46 368.51		9, 550. 14	808				178.03	510.28 11,841.69	53.03	611, 928, 99
4, 190, 93	10.00		29.61		8, 541. 75 1, 406. 54	13, 504. 86			1 247 63		5. c	2.85 950.76		121, 345. 35
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Western Coesis Western Plains Western Phains	Westford West Galoo	west date West dotomska West Grama.	West Haven. West Hobomac.	West Humhaw West Indian (ex-War Diamond)	West Kyska West Lashaway West Lianga	West Loquessuck.	West Mead	West Mount.	West View. West Point.	West Shore Westward-Ho	West Wood	West Zucker Willimantic	Yellowstone.	Total

1922. [First quarter.]

Days out of com-mission. Operating
with reduced
complements in reserve or ordinary. Status.1 Days in full com-mission. tenance and operation. Total main-Repairs and alterations to ships, including equipage. 585.10 30, 12 694, 04 631, 29 30, 12 288 1 192. 69 48.63 Equipage. Stores issued, ing expenses. including provisions. 30.12 28.45 28.45 24.45 34.45 13.88 **8888** 1,251.30 3, 145, 07 38, 261, 47 3, 427, 49 ឌីឌីក:: ខេត្តន 30.12 expense, in-cluding com-mutedrations. Miscellaneous Title C. Accrued pay. Koresan Late Ontario Late Pepin Late Bide Late Bilve Luckenbech, F. J. Deflance. Eastern Light. lith Occidente Cape May. Cape Romaine. Chebaulip Craster Hall Crowell, Peter 11 Dakotaii Eastport. denton..... 3dgecombe..... Fairmont Guantanamo senti.... Mortistown Munarico Mundelta Berwyn. Canton (ex-Hercules)..... Aniwa..... Name of vessel. ë

Credit.

121-55238	20.20	8F-3138	28933	545664	11221	2122214	
22 25 25 25 25 25 25 25 25 25 25 25 25 2	7,654.1	570.0 570.0	3,002, 2,002, 2,589,5	2, 281.5 2, 270.2 554.9 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	3, 619. 3, 619. 3, 619. 3, 619. 3, 619. 3, 619.	562.7 570.0 570.0 577.5 131.5 30.1 557.4 1,471.0	98, 033. 11
	9	8			56.15	414.40	3,440.47
558.74 563.74 202.50	2,067.05	570.04 570.04	694, 02 570, 04 570, 04	554.98	570.04 694.04 883.73 557.78	562.79 570.04 570.04 30.12 557.54 570.04	18, 864. 98
28.77 28.73 198.57 28.53 28.53 28.53 28.65 28.65	7, 654. 16	56. 27	2, 432, 48 1, 990, 18 19, 51 14, 55	2, 278. 25 2, 278. 25 3, 338 7, 55	2,949.75	131.56	75, 727. 66
240.74 426.74 188.57 28.55 28.1.72 28.00 20 20 20 20 20 20 20 20 20 20 20 20 2	7, 654. 16	56.27	1, 114, 12 1, 090, 18 2, 432, 45 19, 51 114, 55	2, 279. 25 2, 279. 25 7, 50		7.50	75, 478. 27
				33.88		131, 58	249.39
				 			

¹ All naval overseas transportation service ships out of commission 92 days.

TANKERS.

Mr. Kelley. Now, the tankers? Admiral Potter. In 1921 the expenditure for the tankers was \$443,803.65. For the first three months of 1922, tankers, \$6,457.89. Mr. Kelley. Does that mean that they are being put out of use,

Mr. REED. Or turned back.

REFRIGERATORS.

Admiral POTTER. These are accumulated charges. Then, for the naval overseas transportation service ships, refrigerator group, in 1921 the expenditure was \$321.483.96.

Mr. Kelley. We did not have any of those in 1916? Admiral POTTER. No, sir. The total number of those vessels was 11 and we have 4 for 1922; the charges against the 4 amount to **\$**2,314.13.

Mr. Kelley. So it looks as though they were being gotten rid of? Admiral Potter. Yes, sir; they are only accumulated charges.

Mr. Kelley. At this point put in the tables.

Admiral POTTER. Very well.

			Title C.		1		Repairs and	-			
No.	Name of vessel.	Acerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	NAVAL OVERSEAS TRANSPORTA- TON SERVICE SHIPS—TANKERS. Agwidale Annabala (ex-Alabama) Auburn Auburn Broad Arrow Broad Arrow Broad Arrow Chestrut Hill Chinampa (ex-Cushing) Conruely, John M Cudahy, Joseph Cudahy, Joseph Dochar, Jum Cudahy, Joseph Henry, George G Goldshell Gurgoyle (ex-Pennoll) Goldshell Henry, George G Hisko Henry, George G Hisko William Rockefeller Standard Arrow William Rockefeller Standard Arrow William Rockefeller Vipulian William Rockefeller William Rockefeller		82, 337, 23 132, 88 165, 754, 08 837, 37 1, 419, 15 61, 51 61, 51	# 22 27 27 27 27 27 27 27 27 27 27 27 27	2, 337, 23 336, 237, 23 15, 337, 23 16, 338, 23 16, 338, 23 1, 338	\$23.75 211.40 62.00 83.56 30.03	\$37.10 67.78 588.11 588.11 28.68.20 496.90 60.04.40 1.044.40 5.586.90 5.72.20 20,720	2, 566,337 7, 788,29 1, 787,299 1, 787,299 1, 787,299 1, 204,29 1, 204,29 1, 204,29 1, 204,29 2, 28,89 2,	12, 234 17, 282 18, 220 18, 22	Aug. 21, 1918 Mar. 17, 1918 Mar. 17, 1918 Mar. 14, 1918 May 18, 1918 Oct. 21, 1917 Nov. 25, 1917 Oct. 14, 1918 Dec. 7, 1917 Mar. 1, 1918 Mar. 1, 1918 Mar. 1, 1918 Aug. 22, 1917 June 19, 1918 June 21, 1918	
_	Total		170, 605, 22	91, 666.72	262, 271. 94	10, 144, 14	171, 387. 57	443, 803, 65			

! !

1922.

[First quarter.]

	NAVY DEP.	YR.I.W	ENT	APPRO
	Operating with reduced Days out full com-comple of comments in mission.	r i 		
Status.1	Operating with reduced complements in reserve or ordinary.		81,086.16 5,010.55 351.18	0,457.28
	Days in full com- mission.			
	Total main- tenance and operation.	! ! !	\$1,096.16 5,010.55 351.18	6,457.89
	Repairs and alterations to ships, including equipage.		\$468. 24 \$4, 542. 31	4, 542.31
	Equipage.	 		40%, 24
	Total operat- ing expenses.		\$1,096.16	1,447.34
	Stores issued, including provisions.		\$1,096.16 \$351.18	1,096.16 sion 92 days.
Title C.	Acerned pay, cluding com- muted rations. provisions.	! :		351. 18 1
	Aceried pay.			tion Service tanker
	Name of vessel.	NAVAL OVERSEAS TRANSPORTA- TION SERVICE SHIPS —TANKERS.	Auburn Doheny, Edward L., III Hisko	Total 1,096.1 1 All naval overseas Transportation Service tankers out of commission 92 days.
	N. G	İ	1277 1277 1470	

			Title C.				Renaire and				
Š.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
-	NAVAL VESSELS, TRANSPORTA- TION SERVICE SHIPS-REPRIG- ERATOR.							8			
1151 1419 1685 1780	CalamaresPassaic). Lucila (ex-Passaic). Lucila (ex-War Whale). Muscafine.		\$36.00 41,371.64 8,63	\$11, 213, 73 66, 25 1, 229, 05	\$11, 213. 73 36.00 41, 437. 89 1, 237. 688	\$217.00 86.88	\$18, 567, 43 19, 436, 47 16, 460, 66 248, 88 153, 258, 91	\$29, 781. 16 19, 689. 47 57, 811. 67 1, 486. 56 153, 258. 91	10, 562 8, 785 10, 562 10, 562	Apr. 10, 1918 July 3, 1918 May 27, 1918 Aug. 18, 1918 May 2, 1918	
870	North Pole. Oskawa		149.98	6, 404. 98	6, 554. 96		126	6,554,96	8,785	5,00	_
1927 1928 2018			49.50	8, 592.30 50.43	8, 592.30 50.43		14, 131. 64 13, 962. 29 1, 702. 53	14, 188, 34 22, 554, 59 1, 752, 96	8888 8888	200 20 20	
2158	South Pole			7, 637, 16	7,637.16	2, 946, 33	3, 415, 53	11,052,69	8,835	Dec. 5, 1918 July 5, 1918	
	Total		41, 698, 25	35, 398, 10	77, 096.35	3, 076. 45	241,311.16	321, 483. 96			

[First quarter.] 1922.

	ng 1 Days out e- of com- in mission.		\$12.96 2,196.73 71.85 2.89	2,314.13
Status.	Operating with reduced complements in reserve or ordinary.			
	Days in full com- mission.			
	Total main- tonance and operation.			2,314.13
	Repairs and alterations to ships, including equipage.			
	Equipage.		34	2.59
		i	2, 196, 73 71, 85	2,311.54
	Stores issued, including provisions.		2, 196, 73 71, 85	2,311.54
	Miscellaneous stores issued, expense, in- including nutted rations. provisions.			
	Acerued pay.	:		
	Name of vessel.	NAVAL VESSELS, TRANSPORTA- TION SERVICE SHIPS-REFRIG- ERATOR.	1151 Calamares \$12.96 \$12.96 \$12.06 \$	Total
<u>'</u>	N, o		1557 1570 1989 1989	

4 All naval overseas Transportation Service refrigerator ships out of commission 92 days.

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			Title C.								
o S	Name of vessel.	Acerned pay.	Miscellaneous expense, in- cluding com- muted rations.	Mixellaneous Stores issued, expense, in- including pro-cluding com- visions and muted rations, medical stores.	Total operating expenses.	Equipage.	keparts and alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	NAVAL OVERSEAS TRANSPORTA- TION SHIPS—SEAGOING BARGES.										
32	Cullen, Katherine		\$5.25	\$20.00	\$25. 25	125. 25	\$21.74 151.00	25.39		Sept. 28, 1918	
888	Nahunta (ex-West Point).		104. 60	104.60	104.60	104. 60	224.08	28 28 28 28 28 28	٠.	Aug. 8, 1918	
KK37	San Joaquiin Walker, J. B		248.00	248.00 3.00	248.00 3.00	248.00 3.00	i	36.28	<u>::_</u>	7,000 do.	
	Total		253. 25	127.60	380.85		603. 59	984.44			

			L			. :			150	<u>:</u>
		Ton- nage.	<u> </u>	92	2	3	35	5	150 150	
	E	maintenance and opera- tion.		81.60.90	148, 63	140.90	137.29	137. 49	192. R4 252. 79	1, 007. 75
	Repairs and	alferations to ships, including equipage.			11.15		\$280.77		192. #4 252. 79	463.62
		Equipage.					\$280.77			280.77
1921.		Total operating expenses.		8137. 55	137. 48	137. 48	137.48	137. 49		X24.90
		Miscellancous Stores issued, expense, in- including pro- cluding com- visions and muted rations. medical stores.	: -	\$137,48	137.48	137. 48	137.48	137. 49		06.45%
	Title C.	Miscellancous expense, in- cluding com- muted rations.								
ļ		Accrued pay.								
		Name of vessel.	CANADIAN DRIFTERS AND TRAWLERS.	nadan Drifter No. 30	nadian Drifter No. 31	nadian Drifter No. 36	nadian Drifter No. 41	nadian Drifter No. 50	nadian Drifter No. 61. nadian Drifter No. 78.	Total

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UNSERVICEABLE SHIPS.

Mr. Kelley. The next are ships unserviceable for war purposes. They are ships that are being kept on account of their historic value? Admiral Potter. Yes; the Constellation, the Constitution, the Hartford, and all those.

Mr. Kelley. What did they cost us in 1916?
Admiral Potter. In 1916, \$1,516,663.04.
Mr. Kelley. And in 1921?
Admiral Potter. In 1921, \$988,392,884.
Mr. Kelley. And for the first three months in 1922?
Admiral Potter. \$276,289.12.
Mr. Kelley. At this point put in the tables.
Admiral Potter Very well.

	Total operat- s issued ing expenses. ling pro- ns and ulstores).	Public vouchers Stores issued ing e- finelucing (including pro- commuted visions and rations). medical stores).
	1, 258, 45 82, 502, 85 6, 903, 03 56, 928, 03 2, 341, 64 681, 288, 54	81,244,40 81,258,45, 85, 25, 00, 56, 900, 01, 57, 64, 64, 68, 64, 64, 64, 64, 64, 64, 64, 64, 64, 64
		1, 12x, 00 1, 0N1, 63
10141		
1-10000	1, 682.78 7, 100, 47 9, 469.14 85, 620, 56 8, 188. 81 43, 084, 74 7, 680, 42 29, 808, 80 8, 465, 68	5, 174, 67 19, 4682.78 7 5, 174, 67 19, 468.14 85 1, 717, 14 18, 188.81 43 279, 85 15, 606, 42 29
	1	653.63 40,720.18 31,669.78
N-1-1		
00 1	8,844.13 1,403,040.22	31,272.17 518,844.13 1,403,

			Title C.	-							
j Z	Name of vessel.	Acerued pay.	Mlwellaneous expense, in- cluding com- muted rations.	Stores Issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton-	Date of first commission.	Months in com- mission.
	UNNERVICEABLE FOR WAR										
	Old Constitution	\$21, 124. 88	\$825. 25 952. 68	\$4, 932. 50 16, 258. 63	826, 882, 63 17, 211, 31		\$3,050,96 1,951.31	8.55	1,400	1876 1797	
200 X	Cumberland Cranite State Harford	115, 747. 97	125.50	35, 358, 09	35,483.59	3, 892, 18	29, 074, 96	119, 780, 45 75, 331, 85	11.4.6 0.51.5 0.51.5	1904 1818 1858	
	Intrepid Mohican Philadahia	66, 412. 05	2, 439. 76	31, 897.03	31,897.03		1,154.45	5.52	885	: : :	
	Reina Mercedes	368, 134, 99	9,071.25	<u> </u>	38	224	1,062.21	355	, 2, c	1987	
- 04 -	Southery Topeka	50,676.21	1,088.29 2,257.14	8	25.2		14, 776, 52	2,4	, e, e, 25, 56	1904 1881	
	Total	622, 096. 10	16, 759. 87	242,301.97	881, 157. 94	42, 706. 91	64, 527. 99	988, 392, 84			

94363-22-12

1922. [First quarter.]

l J			Title C.							Status.1	
o Z	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to shiers, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
### ### ##############################	UNNERVICEABLE FOR WAR PURPOSES. Adams. Adams. Adams. Old Constitution Old Constitution Clumberland Clumberland Clumberland Mirrapid. Mobican. Philadelphia. Raina Marcedes. Southery.	\$24,456,06 \$24,456,06 1150,296,80 4,726,45	\$398.23 \$3.33.94 115.33 4,555.61 28.48 8,411.59	\$2,468.05 217.70 35.82.22 4,384.17 2,384.17 2,386.01 10,875.01 16,336.81 9,847.85	\$2,488.05 217.70 32.70 3,984.15 4,941.75 30,104.17 11,206.68 111,826.22 14,602.78	94, 110.05 14, 25, 199.78 15, 692.33 9, 284.33 9, 201.04 29, 502.28	\$300.53 121.29 51.85 51.85 892.29 892.29 1,182.28 1,086.24 1,382.36 1,086.24	\$500.53 2,548.34 51.83 217.70 317.70 8,986.46 4,975.14 30,345.71 182,480.10 19,883.00	<u> </u>	8 8888	8 8888

¹ In commission 92 days unless otherwise noted.

EX-FOREIGN SHIPS.

Mr. Kelley. The next are ex-foreign ships. Of course, we did not have any of those in 1916?

Admiral Potter. No; but in 1921 we had quite a formidable lot.

Mr. Kelley. What did they cost us in 1921?

Admiral Potter. In 1921 they cost us \$11,548,036.35.

Mr. Kelley. So there must have been a great many on that

Mr. REED. Probably 150.

Mr. Kelley. How much did they cost us during the first three months of 1922?

Admiral POTTER. \$1,153,898.37.

Mr. Kelley. We did not have any of those before the war, and they are costing us now at the rate of about \$4,600,000 a year? Admiral Potter. Yes, sir; there are 57 of them.

Mr. REED. But only 12 of them in active commission?

Mr. Kelley. These are commercial ships.?

Admiral POTTER. Yes, sir. The Bath is a cargo carrier, the Bridgeport is a supply ship, the Gulfport is a cargo carrier, and the Kittery is a supply ship. Admiral Coontz can tell you what they are used for.

Mr. Kelley. About how many did you say there were?

Admiral Potter. Fifty-seven, against which we have charges for this year, but I think not more than 12 or 14 at the outside are in commission.

Mr. Kelley. Put in the tables at this point.

Admiral Potter. Very well.

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		Title C.				Repairs and	Photograph			
Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- mated rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alferations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
EX-FOREIGN.										
Acolus (ex-German Grosser			\$863, 29	\$863.29			\$863.29			1
Agamemnom (ex-German Kaiser Wilhelm II).		\$89.17	12, 441. 16	12, 530, 33		105, 944, 19	118, 474. 52	25, 530	Aug. 21, 1917	
America (ex-German)		***************************************	4, 312, 62	4, 312, 62	\$884.00	38, 304, 08	43,500.70	41, 700	Aug. 5, 191	-
Antigone (ex-German Neckar)		28.06	729.39	701.35	523.00	1, 135, 27	956.94	17,024	Sept. 5, 1917	Щ
Artemis (ex-German Bobemia).			10, 331, 79	10, 331, 79	-	4, 567, 37	14, 992. 16		1	
Netoria (ex-German)	\$67,010.52	2, 022, 90	43, 916, 99	4 431 16	8, 240, 92	40, 401, 61	4 476 30	17 300	Nov. 15, 1917	
Balli (ex-German Androme)	133, 497. 36	10,640.11	81,804.69	225, 942, 16	15, 394, 35	56, 708, 65	298, 045, 16	24, 11	30	
Beaufort (ex-German Rudolph	00 000 000	20 000 2	20 620 00	100 000 000	000	DE 000 PD	000 000 000		\$ 8	
Besoeki (D)	109, 548, 69	16.53	1, 035, 76	1,052.29	41.00	12, 967, 15	14, 060, 44	8, 414	Apr. 2, 1919	
Bukelsdijk (D) Biesbosch		375, 81	39, 814, 02 4, 712, 58	39, 870. 37 5, 088. 39	4, 120, 94	3, 329, 70	10, 176, 58	13,740	5	Щ
Black Hawk (ex-German			2 061 70	4 001 79	08 686	7, 380, 92	4 264 23	12 500	Mar. 15 1010	
Bridgeport (ex-German Bres-	-	100	3, 301. 12	0, 001.14	00-100 mm		1, 30% 32	20,000	2 5	
Builenzorg (D)	574, 087, 38	6, 524, 12	4, 958, 56	11,483.68	1,056,63	2,959.34	15, 499, 65	14, 538	Mar. 29, 1918	
Camdon (ex-German)	434 315,06	25 631.46	174,330,52	634. 277. 04	156, 545, 01	183, 824, 64	974 646 69	4 494	Aug. 15 1917	
Cap Finisterre (ex-German)	į	147.00	442	589	2, 490, 46	4,339.95	7, 419.68			
Celebra (ex-D)		47.06	5, 649, 87	5,650.62	43.02	4, 906, 82	5,693,64	4, 594	Apr. 6, 1918	
Chattahoochee.			1, 358, 03	1, 358, 03		156.53	1,358.03		Apr. 3, 1918	
Constantin			799.90	799.90		32.23	709.90	6,000	Apr. 22, 1919	i

	1918		Apr. 4, 191×		•	Zept. 1, 1917			Sont 28 1018		**	<u>-</u> `	July 6, 1917	Ť	3		3	Dec. 20, 1917	3,5	,	Aug. 27, 1917	•	Mar. 28, 1918	3 ~	•	Feb. 26, 1918			Jan. 2, 1918	Aug. 27. 1918	•	July 14, 1917		•	: :	Oct. 28, 1918
25 July	100	x 26.65	200		Š	<u> </u>	200	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		•	1.900.04	Į.	347, 142, 19	2,53	30, 620. /1 22,	446,030.	768, 029, 44 58,	177, 755, 83 3, 310	9, 430, 12 1, 683, 39		168.97	2, 104. 47	27.0	3, 957. 42 6.	256, 704, 75	+	37 902 0		14,035.00 12,700	72 110	851.87 25.	£7,85	21,510,38	451,842.41	4,367.18	386,958.65 9,821 10,720.94 11,000
·········		5, 022, 27			ž		Ś	450 (18 184, USA	12, 130.		1.900.04	643	16, 399. 5K RO, 557. 97	552. 40 10, 047.	36, 416.	20 435.453.	006.00 239,044.	8, 783, 05 63, 595, 43	22.1		618.72 101.33	12		1,527.	6				10.99 2, 100.69		462		25	3, 427. 61 150, 633. 89		14,297.80 143,318.36 1,107.04
370, 39 1, 1, 1996, 10	27 60	3, 510, 36 3, 574, 36	25X 0X			55, 294, 54	121. 61 250, 325.	37% 42 /01, UBS.	6.6	. AK.		£	142, 575, 61 250, 194, 64	403, 90 75, 403,	95.	539.39 9.606.	K20.35 - 476,93K	30, 476, 67 105, 377, 35	5,005	6 040	22. 64 110. 45	K90, K0 1, 935.	62 11, 765.	384.01	4. 192. 31 4. 192. 31	96 115	720 6 63 720	2, 854, 65	11, 814, 78 11, 923, 32	76 77 043	379.96	243, 28 249, 740.	536. UZ 15, 536. 678. 40 13, 678	792. 15 297, 780.	367. 18 4.367.	99, 940, 76 229, 342, 49 9, 613, 90 9, 613, 90
1, time, the factors	- 22 28	8				\$95, 775, 36 19, 016, 16	11X 61	- 12.74					102, 108, 79 5, 500, 24			66. 21	3.1	71. 826. 46 3, 074. 22	198, 30		132. 99	44.55	4, 618, x3	60 10	31.93	.92			108, 54	8 9	9.75	123, 137, 65 5, 359, 52		102, 863. 66 5, 125. 10		121, 553. 71 7, 808. 02
	George Wa hington (of-Gor-	100 Cereral Conthals (ex-German)	Gorontalo (D)	The Grath	German)	-	-	THE PROPERTY OF THE PARTY OF TH	=	Communication for America		Kermoor (ex-Austrian)	Kittery (ex-President)	-	1573 Kroenland (D).	Garman)	1658 Levisthan (ex-Vuterland).	_	1508 Lydia		Withelm II)	_	-	1754 Mercurius	Mobile (ex-German Cleveland).		7	2312 Martha Washington (ex.Gee.	That	1788 Moun Vernon (ex-Kronprin-	812 Nansemond (ex-German).		Oosterdijk Onhir (D)	Osterfriesland.	Patricia (ex-German).	Pensacola (German) Pequot

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		Title C.				Repairs and	É			
Name of vessel.	Acerned pay.	Miscellaneous expense, in- cluding com- mated rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	naintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
EX-FOREIGN.		: : !	! 							, i
Aeolus (ev-German Grosser			\$963.29	\$863.29		ğ	\$863.29	ê	- 101 PG 101 P	
A g a m e m n o m (ex-German Kaiser Wilhelm II)		71 .688	12, 441. 16	12, 530. 33		105, 944. 19	118, 474, 52	25,530	Aug. 21, 1917	
America (ex-German) Amphion (ex-German) Antigone (ex-German Neckar).		28.06	4, 312, 62 165, 65 729, 36	4, 312. 62 165. 65 701. 33	28.50 161.82 28.00 28.00	38, 304. 08 9. 47 1, 135. 27	25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.500 25.5000 25.500	•		
Arcadia (ex-dierman)	\$67,010.52	2, 022. 99	2, 161. 10, 331. 43, 916.	2, 101, 12 10, 331, 79 112, 950, 50	8, 240. 92	4, 567.37	2, 273, 93 14, 992, 16 161, 593, 03	•	Oct. 17, 1917 Nov. 15, 1917	
Bali (D). Bath (ex-(lerinan Androme)	133, 497. 36	10, 640. 11	81, 804.	4, 431. 16 225, 942. 16 854. 87	15, 394, 35	56, 708. 65	4, 476, 39 298, 045, 16 854, 87	17, 300	Mar. 27, 1918 July 30, 1917 Mar 28, 1913	
Besufort (ex-German Rudolph Blumberg)	109, 849. 69	7,889.25	65.	178, 369, 90	5, 698. 16	z ;	252,052.78			
Bestocki (D) Bukelsdijk (D) Biesbosch		16.33 375.81	39, 814, 02 4, 712, 58	39, 870, 37	4, 120.58 115.58	3, 329. 70	43, 315, 63 10, 176, 58	13,740	Apr. 2, 1918 Mar. 21, 1918	
Black Arrow Black Hawk (ox-German Rhaetia)			3,981,72	3,981.72	382. 60	7, 590. 92	7, 590.92	13, 500	May 15, 1918	
Bridgeport (ex-German Brest-lan)	. 574, 087. 39	24, 761. 40	232, 952. 05	831, 800.84	297, 447. 87	150, 377, 62	1, 279, 626.33	8,600		
Calleo (ex-derman)	434, 315.06	25, 631. 46	174,380.62	4 E	156, 545, 01		67. 18 67. 18 974, 646. 69	4.		
('sp Finisterre (ex-German) ('ssco (ex-German Elmhern) ('elelves (ex-D)		147.00 47.06 . 75	442.27 8, 565.13 5, 649.87	8, 612, 79 5, 650, 62	2, 490. 46	4, 339, 96	7, 419. 68 13, 519. 61 5, 693. 64	4,504		
Chattahoochee Cilo (ex-D). Constantia			1, 358, 03 799, 90	1,358,03		50.00	1, 25,55,7 2,56,63,7 2,56,63,7 3,56,63,7	9,000	Apr. 3, 1918 Apr. 22, 1919	

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Kermoor (ex-Austrian) 102 108, 79 5, 500, 24 142, 575, 61 Kittery (ex-President) 102 108, 79 5, 500, 24 142, 575, 61 Koringen Der Nederlanden 75, 403, 90 75, 403, 90 Federland (D) 52, 20 75, 413, 90 Federland (D) 75, 410, 90 F	24 142, 575. 20 75, 403.	5 % & 4		80.61 250,184.64 75,403.90 85.12		643, 58 80, 557. 97 10, 067. 11 36, 416. 59	347, 142, 19 87, 043, 41 86, 626, 71 22,	200	Nov. 1, 1918 July 6, 1917 Apr. 4, 1918 Apr. 25, 1918	
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1921—Continued.

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1922. |First quarter.]

	Days out of com- mission.		8	92	: :8	2	88	857	92	92	88		25.6	25	22	25			22
Status.1	Operating with reduced complements in recorre or ordinary.																		
	Days in full com- mission.	 	_:											:					
	Total main- tenaire and operation.		\$152.55	1,032.82	64, 152. 73	36,565.28	4,398.60	208.61	4,663.39	115, 274. 18	3, 567.01	d) 110-01 (c)		338.50	300.00	116.41	50,007.88 80,007.88	51,365.64	1, 43%.33
	Repairs and alterations to ships, including equipage.		60	20.480.18	14,359.76	51.46		0 010 01	Is 'Oro's	1,326.90				2 781 94	5 - 50 - 60	8	925. 47	27.22	1,394.53
	Едшраке.			\$17.50	3,314.94	4, 490. 74	15.60	12 440 91	4.28	\$2,000.00	67 00		45.08		300.00	8.8	2, 572, 99	1, 750.37	
	Total operut- ing expenses.		\$152, 55	94.18	46, 478. (3	32,023.08	4,3%3.00 8,13%	201:32	4, 580. 11	113,623.3X	3,557.01	5	48.27	333.50		8::3	46, 500.37	49,544.04	13.80
	Stores issued, including provisions.		\$152.55	8.8	15,956.50	13, 581. 79	4,383.00	01 306 63	4, 532, 12	24, 438. 72 1, 262. 60	3, 557.01	0. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	48.27	333.50		111.81	13, 735, 53	23, 309, 74	23.25
Title C.	Miscellaneous expense, in- cluding com- muted rations.				\$3,662.42	782.76		208.61	66.99	4, 197. 56						46.00	7A .C.C.	1, 252.28	
	Acerned pay.				\$26, 859. 11	17,658.53		1.56 791 05	00.121.00	84.987.10						91 501 90	32, 773. 81	24,982.02	
	Name of vessel.	EX-PORFIGN.	America (ex-German)	Bali (D)	Bath (ex-tierman Androme)	Beaufort (ex-tierman Rudolph Blumberg).	Posowki (D)	Black Arroy	Buttenzorg (D)	Canden (ex-tierman)	Classo (ex-German Flmshern)	De Kalb (ex-German Prince Eitel	Drechterland (ex-D)	F fro	Ororge Washington (ex-German)	Gorontalo (D)	Houston (ex-German)	Kittery (ex-President)	Long Beach (ex-Hohenfelde)
	N. O.	<u>. </u>	1038	2 ×	Ξ	: :	x ::	81		1221	1163	18	1280	315	2312	7.5	2	9.0	¥96.

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Powholt (ieffmail) 29, Wi. 19 473, 74 45 46, 16 1, 822, 04 85, 615 16 Powholts (ex-tiermail Princes) 23, 15 64, 56 1			£.		25.25		5, 574. 81		
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Quintoe frequency of control in the properties of the propert			94	96. 13	8.5			96. 13	
Rappahaininck (ex.Germain) 73,896,83 2,301,69 39,32.44 115,545,33 13,025,30 549,43 129,100,69 Rilindar (D)		25, 151, 69	86.5	11, 153, 43		4.976.62	4, 587, 96	46, 772, 71	
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Zeelandia (1) Ze				1, 468, 27	1,468,27		:	1, 468. 27	25.8
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616, 270. 85 24, 739. 10 413, 246, 48 1, 054, 256, 43 56, 601. 49 43, 040. 45	-		3	4, 192. 85	4, 192. 85				
	Total	616, 270. 85	24, 739. 10	413, 246. 48	1,054,256.43	56, 601. 49	43, 040. 45	1, 153, 898. 37	

) All ex-foreign in commission 92 days unless otherwise note(, $_{1}\,\mathrm{Credit}$.

LIGHT TENDERS.

Mr. Kelley. The next are the light tenders.

Admiral POTTER. The light tenders are vessels which we took over from the Lighthouse Service during the war; we did not have them before and they have since been turned back.

before and they have since been turned back.

Mr. Kelley. Did we have those before the war?

Admiral Potter. No; we did not do that work at all.

Mr. Kelley. And they are practically out now?

Mr. Kelley. And they are practically out now?
Mr. Reed. They have all been turned back and these are really

delayed charges.

Mr. Kelley. At this point put in the tables, together with a memorandum showing that they have been turned back.

Admiral POTTER. Very well.

		Ş		. :	Sont 4 1017	_	<u>: -</u> :	May 10, 1917	÷			Dec 5 1918			
		<u>:</u>	8	<u>:</u>	3.5		519		9		:		82		<u> </u>
		\$10.95 11.05	78.55	442.18	4, 533, 14	557.13	70.98	11,602.40	25.2	65.80	214. 45	55.98	474.97	3.69	20, 751. 26
ogedin ha	20 010	\$10.85								99.99					ts:03
						:							72.00		16, 197. 54
			\$78.55	442.18	9 250 60	543 67	70.98	00 044	3.5		214. 45	75. 25.	402, 97	3.09	4, 574. 06
medical stores.			\$78, 55	442.18	9 250 60	543.67	20.98	90 00	35		214, 45	2. 17. 40.00	402.97	3.69	4, 574. 06
muted rations.															
· for															
LIGHT TENDERS.	Ambandase	Azalea.	Columbine	Camelia		Gardenia	Hibiscus		Marigold	Mistletoe	Pansy	Rodgers, John	Sunflower	w ood bine	Total
	muted rations. medical stores.	muted rations, medical stores.	muted rations, medical stores.	Arbutus. Arbutu	Arbutus. Arbutu	Arbutus. Arbutus. Arbutus. Aralea. Camella Form. 478.85 Camella Form. 59.256 60.	Arbutus	Arbutus Arbutus State St	Arbutus. \$10.96 Arbutus. \$10.96 Arbutus. \$11.05 \$2.29, 60 Arbutus. Arbutus. \$11.05 \$42.18 \$42.18 \$42.18 \$42.18 \$42.18 \$45.53.14 Arbutus. Ar	Arbutus. Arb	Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Aralea Columbine Cypress Cypress Cypress Arbutus. Cypress Arbutus. Cypress Arbutus. Ar	Arbutus Arbutus Arables Columbine Co	Arbutus Arbutus Arales Columbine Col	Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Arbutus. Argiele. Camella Camella Columbine. Camella Camella Columbine. Camella C	Light TENDERS Light TENDER

1922. | First quarter.]

	Days out of com- mission.	
Status.1	Operating with reduced complements in reserve or ordinary.	
	Days in full commission.	
	Total main- tenance and operation.	\$13.44 1.30 1.14.64 24.37 3.22 3.12 27.60 20.61
	Repairs and alterations to ships, including equipage.	\$7.02
	Equipage.	\$7.02
-	Total operat- ing expenses.	813. H 1.30 1.121.65 24.37 3.22 3.22 71.69 17.60
	Stores issued, including provisions.	\$13. H 1.30 1.134.64 244.37 3. 22 73.69 13.89 1, 515.59
Title C.	Miscellaneous capense, in- capense, in- cluding com- muted rations.	
	Acetued pay.	
		LIGHT TENDERS. Arbutus. Larkspur. Magnedia. Magneto e. Maple. Myrile. Surillower. Total.
: i	N.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

All vessels of the Lighthouse Service and Coast Guard taken over by the Navy Department during the war have been returned to their respective departments.

1 All out of commission 92 days.

COAST GUARD VESSELS.

Mr. Kelley. The next are the Coast Guard vessels.

Admiral Potter. Almost the same thing applies to the Coast Guard vessels.

Mr. Kelley. Did we have any in 1916?

Admiral Potter. No, sir. The provision was that those vessels should be turned over to the Navy in time of war. On the 6th of April we took over 17, and then at a later date they were turned back to the Coast Guard.

Mr. Kelley. And the extra vessels you had were put out of

commission?

Mr. REED. We have none of them; there were none in commission,

so we noted that they were all turned back.

Mr. Kelley. They have been turned back to the proper active agency operating them?

Mr. REED. Yes, sir.

Mr. Kelley. At this point put in the tables.

Admiral Potter. Very well.

					1921.	`					
			Title C.				Repairs and	E			
X. c	Name of vessel.	Acerued pay.	Miscellancous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
1	COAST GUARD.										
X002	Acushnet	- >		\$4, 596, 52	\$4, 596, 32			\$1, 596, 52	<u>Q</u>	Nov. 6, 1908	:
85	Apache			9,013.82	9,013.82	\$ 359. 73	52. 59	9,376.05	£ 3		:
200				10, 235. 31	10, 235, 31			10, 235, 31			
202 202 203 203				11,572.94	11, 572, 94		15, 770. 98	27,343.92	1,181	Sept. 18, 1898	:
300				16,623.57	16,623.57	11 7.33	26. CS	17,907.15	1,605		:
Ş	Calumet					62.00		62.00	3	Dec. 7, 1917	
£210				2, 782. 01	2, 782, 01			2, 782, 01	908		
8212	_			7,889.21	8			4, 869. 24	670	Apr. 11, 1917	:
223	_			669.15	669.15	211.12		280.27	82		:::::::::::::::::::::::::::::::::::::::
25				- AG 505	138.08	71 230 4		ź	8	7622 90 1007	:
25.5	- 1			1, 190.25	21, 180, 45	a, 000. 14		20, 201. 38	1,080	may on, 100	
2 5	Chida			28.58	2 085 84			9 065 84			:
25.5				716.63	716.63	4.34		8	5	•	
822				14.66	14.66			7	,		
2 2 2				5, 621.38	5, 621.38			5, 621.38	179	Aug. 2, 1918	
222	_	·····-		15, 735, 97	15, 735. 97	144.37	2,21	ģ	8		:
2				25.55	35.55	45.52		141.06	7		:
3				7,58	1,000.72	9	22, 020, 00	ģ	25		:
5				2,350.02	2,000.04	10.12	C) 100 (27	58, 500. 41 4, 596. 00	3,18		:
	Morrill			5,55	5, 951, 70	133, 74		7,085,20	629		
8	_			1, 197. 94	1, 197. 94	121.11		319	1.192		
22	Ossipee			18, 298, 71	18, 298, 71		5,958,57	24,257.28	8		
8283	Pamilico			2,324.20	2,324.20	512.84		ģ	121	July 26, 1907	
ž	_			198.65	198.65			198,65		Apr. 10, 1917	
28	_			22.22	21.32			ដ	8		:
	_			5,658	5.05 5.05 5.05 5.05 5.05 5.05 5.05 5.05	1, 188, 50	00 000	6, 819, 76	2		:
ž 8	Senection		150 S	25, 908, 74	6, c	200	11,800.99	38	7 5		:
8	Tallanoss			12,14,88	12, 214.88	321.57		513	812	Aug. 12, 1915	
8				19, 968, 27	19, 966, 27	432.40	110,71	20, 508, 47			
ŝ	Togs			1,830.76	5.5		14, 067, 36	20,08	196	Dec. 27, 1902	
				0,010.0	0,000			,			

	Total		34.10	292, 715. 96	292, 750. 06	11, 436. 45	74, 378. 21	378, 564. 72			
	;			(Fir	1922. [First quarter.]		•				
			Title C.							Status.1	
	Name of vessel.	Accrued pay.	Miscellancous expense, in- cluding commuted rations.	Stores issued, including provisions.	Total operating expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full commission.	Operating with re- duced complements in reserve or ordinary.	Days out of com- mission.
	COAST GUARD.										
pac	Apache			\$1.65	\$1.65	R2 634 98		3 634 28			
ng.	Androscoggin			23.59				, 8,59			
18.	Gresham			6.46	6.46		•	2.50 2.45			
Sck La	Hudson. Mackinac	: : : : : : : : : : : :		24. 16				2. 16 2. 16 3. 16			
8 1	Manning.					25.00	\$1,000.04	1, 850.04 25.05			
ohs.	Mohawk			363.82				363.82			
18	Seneca			146.69	146.69		10, 239. 30	10, 385, 99			
ğ	Snohomish	÷.3	834 4R		25.40		61 644 4	8 006 58			
SI.	Tuscarora			31.84	31.85		5.40	37.24			
	Unalga			1, 861. 17	1,861.17	7, 711. 10		7, 718.80			
	Total	5.40	234. 46	3, 469. 90	3, 709. 76	11, 370. 38	19, 667. 46	34, 747. 60			

COAST AND GEODETIC SURVEY AND BUREAU OF FISHERIES VESSELS.

Admiral POTTER. The same thing is true as to the vessels of the Coast and Geodetic Survey.

Mr. Kelley. And the same thing is true of the vessels of the Fish Commission?

Admiral Potter. No; we keep those for scientific purposes.

Mr. Kelley. How much did they cost us in 1916? Admiral Potter. In 1916 they cost \$113,000.

Mr. French. When you are operating vessels for other bureaus or

departments against what department is the expense charged?

Mr. Reed. It is charged against the Navy under an old law which requires us to man and operate vessels for the Fish Commission.

Admiral POTTER. One on each coast; they have a scientist or two on board, but the officers and men are Navy personnel.

Mr. Byrnes. How long have you been doing that?

Admiral Potter. For about 40 years.

Mr. French. Is that the only bureau for which you are operating vessels?

Admiral Potter. Yes, sir.

Mr. French. How much is that particular item?

Mr. Reed. In 1921 it cost \$175,860.99.

Mr. French. As a matter of fact, then, that is an item which is properly chargeable against the Department of Commerce rather than against the Navy Department?

Admiral Potter. I think it is in a way; if it were not for the law it would be equitable to make a transfer of appropriations to cover it each vear.

Mr. Kelley. How much was the amount for the first three months !

Admiral Potter. \$38,442.50.

Mr. OLIVER. Is that service maintained solely for the Bureau of Fisheries or does it incidentally serve naval purposes also?

Admiral Potter. I do not think that it serves naval purposes. Mr. OLIVER. Following the line of inquiry suggested by Mr. French, you have a system whereby you carry freight on naval vessels for other bureaus; that is, when you have room on naval vessels you carry their freight!

Admiral Potter. We do it for the Army.

Mr. OLIVER. But you do it for some of the other departments, do you not!

Admiral Potter. We have done it for the Department of Com-

Mr. Oliver. In carrying supplies to Alaska?

Admiral Potter. Yes, sir.

Mr. French. One thing I had in mind in that connection was this: In the Interior Department bill, in the Bureau of Mines, we came across some expenditures last year that were charged to the Interior Department for the benefit of the Navy in connection with your oil reserves and development work in California, and it struck the members of that subcommittee that whatever money was expended for your purposes ought to be authorized in this bill rather than in the Interior Department bill and ought to be charged to you instead of to the Interior Department. Now, we have the same situation,

except it is reversed, and it seems to me here is an item that ought be charged against the Department of Commerce instead of to Of course, I do not object to your doing the work, but it is nerely a matter of where it should be charged.

Mr. Byrnes. We provided for that, too.
Mr. French. Yes; in the Interior Department bill we left it out mtirely; we left the authority with the Bureau of Mines to do your work, but gave them no money with which to do it, so that in making appropriations for your work you will have to take that into conderation and the committee will need to appropriate such amount may be necessary for your oil work, but your department, from time to time, transferring the money to the Bureau of Mines.

Mr. Byrnes. If there is no estimate for it the Navy Department might to make an estimate for the money necessary to do that work.

Mr. French. Yes; that will have to be done.

Mr. Kelley. As I understand it, all of the light vessels have been

mrned back?

Admiral Potter. Yes, sir; only \$2.87 was expended in the first marter of 1922.

04363—22——13

			Title C.							Status.	
ė Š	Name of vessel.	Accrued pay.	Accrued pay. cluding com- muted rations. provisions.	Stores Issued, including provisions.	Fotal oper ng expens	Equipage.		Total main- tenance and operation.	Days in full com- mission.	Decating with reduced complements in reserve or ordinary.	Days out of commission.
	COAMT AND GRODETIC SURVEY.					i 	! i				
- T	Explorer als. urveyor			245.87 86.87		945.87 245.87 86.31		\$12%.00 245.87 86.31	1124, 00 246, N7 H6, 31		222
	Total			440.1X	400.18	600. 1H		46th. 114			

NAV	Y DEPAR	IME	ENT	API	ROP	KIA
Months in com- mission.						
Date of first commission.	Nov. 19, 1917 May 12, 1917 Dec. 6, 1917				Status.	Operating
Топ-	35					
Total maintenance and opera- tion.	\$126, 763, 96 49, 013, 46 83, 57	175, 860. 99				Total main-
Repairs and alterations to ships, including equipage.	\$5.28 542.78	548.06				Repairs and
Equipage.	\$194. 01 300. 00	105.89				
Total operating expenses.	\$128, 564. 67 48, 770. 68 83. 57	175, 418, 92	1922.	First quarter.]		Total contract
Miscellaneous Stores issued, expense, in- including pre- cluding com- visions and muted rations. medical stores.	\$20, 147.66 12, 207.22 83.57	32, 438. 45		(Fi		
Miscellancous expense, in- cluding com- muted rations.	\$222.75	222. 75			Title C.	
Accrued pay.	\$106, 194. 26 36, 363. 46	142, 757. 72				
Name of vessel.	nureau of fisheries. Albaiross. Fish Hawk	Total				
Ċ Z	8252 8253 1913					

		Title C.							Statu
Name of vessel.	Accrued pay.	Miscellaneous expense, in- expense, in- muted rations.	Stores issued, including provisions.	Miscellaneous Stores issued, ing expenses. cluding com-including muted rations.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Operat with Days in drie full com- mission. ments reserv	Operat with duce comp ments reserv ording
REAU OF FISHERIES.									
oss. Bwk.	\$22, 996. 30 8, 761. 06		\$3,908.47 2,585.90	\$26, 904. 77 11, 346. 96	\$190.77	\$190.77	\$27,095.54 11,346.96		
[otal		31, 757. 36	6, 494. 37	38, 251. 73	190.77	190, 77	38, 442. 50		
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of weesel. VESSELS.						Repairs and	Total	É		Month
Light vessel	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	maintenance and opera- tion.	nage.	Date of first commission.	in com- mission.
Light vessel							•			
Light vessel				S 19		\$450.04	#50.04 			
light vocan		\$24.99	91.00	888			24.90			
Light vessel			4, 307. 63	4, 307. 63		43.37	43.37			
Light vessel						465.96	465.96	:		
Light vesse			56.35	49.35			3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
Light vesse			345.85	345.85		79.45	425.30	<u> </u>		
		294.68		294.68	:		25. 26. 26. 26. 26.	<u>:</u>		
Light vesse			₽	8:		13.67	13.67			
Light vesse			2.45	2.45				-		
Light vesse			10.27	10.27		663.41	1. 152.87			
Light vesse	<u>:</u>		- Fig. 40	2.60		652 15	652, 15			
Light vessel No. 70		337.94		337.94		& 56	421.61	:		
Light vesse			સ્ટ સ્ટ	8		1, 421. 53	1,506.58	-		<u>:</u>
Light vesse			4	3		225.80	23,52			
Light vesse	:		2 770.86	2 770 88			2, 770, 86			
Light vessel No. 8/			,			13.27	13.27	:		<u>:</u>
Light vesse			333 21	333.21		33	\$ 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3	:		<u>!</u>
Light vesse	÷					878.06	876.05			
Light vessel No. 93	-	4.18		4.18		211.06	215.24			
Light vesse				•		4, 437. 57	4, 487, 57	:		
		661.73	8, 507. 76	9, 109, 55		9, 687.33	18, N50, NN			

	Days out of com- mission.	333	
Status.	Operating with reduced complements in reserve or ordinary.		
	Days in full commission.	88.72 4.25	
	Total main- tenance and operation.	86.72 14.25	2.87
	Repairs and alterations to ships, including equipage.	\$6.72	6.72
	Equipage.	80.40 14.25	
	Total operating expenses.		
	Stores issued, including provisions.	\$0.40 14.25	3.85
Title C.	Miscellaneous expense, in- cluding com- muted rations.		
	Mivellaneous Stores issued, ing expenses. Acerued pay: cluding commuted rations.		
	Name of vessel.	Light vessel No. 44 Light vessel No. 47 Light vessel No. 80	Total

MISCELLANEOUS VESSELS.

Mr. Kelley. Then we have a miscellaneous list. Did we have a miscellaneous list in 1916?

Admiral POTTER. Yes; we had a considerable list. But it was practically limited to receiving ships and yard craft.

Mr. Kelley. How much was it in 1916?

Admiral POTTER. \$4,414,667.76.

Mr. Kelley. And in 1921?

Admiral Potter. \$25,470,160.90, and for the first quarter of 1922, \$4,459,463.34.

Mr. Kelley. At this point put in the tables.

Admiral POTTER. Very well.

Date of first commission. Full com. sion in mission.						
Tonnage.						26
d Total to maintenance d- and operation.	\$10,827.90 70 475,330.06 80,118.72 954,478.44	1,096, 34,	5.05 416,267.68 7.71 216,124.04 0.87 14,380.99 5.25 38,903.38			1 103 666 94
Repairs and alterations to ships, including equipage.	\$ \$105.70	25.75.21 25.75.21 25.75.20 25.75.20	1,38			3 198,304.23
Total operat-	\$10, 827.90 475, 244.36 80, 118.72 953, 967.39	` - `	415,932.63 214,736.33 28,478.10 14,310.12 38,898.13	7, 233.98 126, 576.15 205, 533.44 54.127.56	الت	4, 216, 363. 53
Stores Issued (including pro- visions and medical stores)	\$28, 712, 98 10, 519, 52 73, 591, 71	38,580.03 235,712.74 225.46 331.62	166, 415. 09 31, 607. 81 1, 242. 87 3, 606. 73 6, 558. 23	3,399.24 32,970.07 31,017.27		666, 419. 99
Public vouchers (including commuted rations).	\$168, 95 29, 338, 39 3, 951, 45 36, 258, 52	17,904.93 23,804.41 8,585.24	1,660. 22 9,518.12 231. 79 525. 90	49.50 12,483.78 1,644.76 439.09	5,874.57	152, 468. 12
Acerued pay.	\$10, 65k, 95 419, 192, 99 65, 647, 75 844, 117, 16	397, 186. 00 836, 914. 29 25, 259. 43	247, 857. 32 173, 610. 40 26, 997. 44 10, 177. 49 32, 317. 40	3,785.24 81,122.30 172,871.41		3,397,475.42
Name of vessel.	MINCELLANEOUS. Receiving ship at Ports- mouth. Receiving ship at Boston. Receiving ship at New Port. Receiving ship at New York.	phis Receiving ship at Norfolk. Receiving ship at Charleston Receiving ship at Mare Island Receiving ship at Mare Receiving ship at San Fran-	Gisco. Receiving ship at Puget Sound. Receiving ship at Cavite. Receiving ship at Cavite. Reserve torpedo division. Annapolis.	Charleston Yard craft Ships, Naval Academy ingreen	Target rafts. Airships.	Total

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			Title C.				Repairs and	e to F			
o N	Name о	Accrued pay.	Miscellaneous expense, including commuted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	maintenance and opera- tion.	Ton- nage.	Date of first commission.	Months in com- mission.
	MISCELLANEOUS.										
1001	A-1 (house-boat)						\$2.10	\$2.10			
102	AlbacoreAlban		05.58		S5 50		213.20	23.3	:		
1059	Arthur and Eddle					25 .00	117.00	17.8			
9201	Avocet			\$3.4 1	3.41		38.	8.			
90.5	Berry		S .	77 110 07	25.12	8 407 84	837 80	20 256 04	<u> </u>		:
1146	Blackburn, Thomas.		89.21	5.46	P. 67	5	3	94.67			
13	Burton, George		3.10	180.28	192.36		:	192.36	:		
1212	Choctaw			01.10	01.10		138.98	138.98			
1430	Clark, George.			32.05	32.05		89, 526. 51	89, 558. 56			
1548	Clay, John			86.16	8	22 87	11 25	20.00			:
1431	Cochran, George			20.35	20.35	2	67.30	87.66			
1549		:		86.43	25.5	948 79	6 840 00	86.43			
2				3	8	267.40	,	27.72			
888	arge)		3 670 51	2, 506. 80	3,506.80	62.40	819, 318. 45	3,670,51			
3			762.00		25.00			782.00			
27.5				216.48	210.48		178.13	15.06			
122			8 .		8.			8			_
1278	:		2 2	:	2 4			9.5	:		
2			3	12.62	12.62			12.62			
1310	:			5	2 5	25.58		25.03			
2	Emprese			10, 281. 52	10, 281. 52	3	73.17	10, 354.00			
	East Wind	7		-			918.17	21.79			

1, 786.35 1, 786.35 1, 786.35 1, 786.35 6, 786.36 10, 889.45 2, 255	2.5.25 2.5.35 2.5.35 2.5.35 2.5.35 2.5.35 3.5 3.	598. 75 54. 828. 75 17. 20 17. 20 17. 20 17. 20 17. 20 17. 20 11. 58 11. 58 11. 58 11. 58	56.00 563.42 1,287.33 1,287.33 286,742.03 227.25 38.74 132,083.19 15.886.41 15.886.41	16.47 116.79 200.00 6.972.91 717.03 1,651.00 3,917.64 288.28
1, 760. 33 1, 760. 42	91 199	36, 194, 17 28 37, 20 358, 86 227, 074, 31 22	 	16,972.91 1,533.96 4,543.28 277.13
9 9 37	. 17 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	38, 278, 08 15, 00 343, 248, 32	383, 715. 51 277. 96 2, 791. 31	196.13
130, 55 10, 68 12, 63 46, 826, 36 2, 36	23.28 26.28 26.28 26.28 26.28 27.28 26.23 27.28 26.23 27.28	132, 356, 25 11, 00 5, 429, 68 1, 349, 76 108, 28, 30	505.25 576.35 505.35 505.35	16.47 115.79 900.00 777.03 9,158.23 9,158.23 11.15
12.62 46.05 5,673.09	6. 41 16. 19 849. 50 69. 54 1. 32	68, 436, 62 114, 00 5, 428, 68 115, 58 146, 25	1, 503.42 1, 576.73 144, 017.88 14, 017.88 3, 486.12 1, 500.21	16.47 717.03 96.64 8,151.73 31.15 49.62
10, 68 v	273.50 2.36 360.00 18.00	815.07 815.07 6.00		115.79 900.00 1,006.50 68.85
		83, 104, 58 11, 203, 51	233, 522, 97	
cullen Brothers Goolland Gordland Grothon Graham, John Graham, Thomas Harlann R. Harling, A. C. Harris, C. C.	Hendrix, Thomas. Houston, Barnard Hudson, James Logan Joe Keketticut Kerrigan Learan Learan Learan John F	Lexington Mahamina Manager Mattole McCalloch McMak(00 Monawk Manifou Manifou Minitiou Ninisie	Norfolk (floating derrick) Oil barge No. 6 Oil barge No. 3 Oil barge No. 31 Pyro Pyro Pyro Pyro Pyro Pyro Ren Shell Reholoth Richard Buckly Rhuhintin Rhuhintin	Siam Duffy Silver Shell Smith, John S. N. (O. No. 1 S. P. 8038 (Princess) Success Sull van, Lawrence N Sullyan, Lawrence N Thomas Buckley

1922—Continued.

	21321		-111				.02 111111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	
	Months in com- mission.										
	Date of first commission.										
	Ton- nage.	!									
į	Total maintenance and opera- tion.		\$15.09	988. 27 9, 723. 36	336.50		26,080,44 120,080 118,180 118,48 148,48	8.00	1, 800.39	44, 822. 02	1, 542, 340, 68 440, 015, 33 583, 607, 89 23, 345, 72 444, 320, 89 444, 320, 89 130, 334, 84
Repairs and	alterations to ships, including equipage.			\$1,828.70	9	6,000	29.61			5,746.72	5. 24 112 92 1141.17 2, 008.01 1, 308.16 5, 578.97 0, 503.85
	Equipage.			\$30, 706. 98 240. 00			1,356.57			20, 545.65	906, 184, 60 4, 196, 24 4, 644, 29 126, 746, 91 1, 0855, 40
	Total operating expenses.		\$15.09	47, 452. 55 9, 483. 36	3345.50 2,410.91	88.28.8 88.42.3	79, 046, 43 42, 734, 48 142, 46 118, 18	8.60	1,800.39	18, 529, 65	638, 150, 34 1, 611, 41 435, 655, 12 581, 680, 88 432, 730, 30 17, 182, 75 271, 976, 13 118, 688, 44 118, 688, 44
	Stores issued, including provisions and medical stores.		61 50	12, 760. 59 9, 3%6. 80	336. 50 2, 410. 91	25.25 25.25 25.25 26.45	35, 920, 35 1, 118. 21 34, 96	69, 898. 78	1, NO0.39	11, 713. 29	35, 044, 76 14, 00 71, 380, 29 68, 931, 30 95, 883, 42 4, 40, 54 149, 740, 53 29, uss. 78
Title C.	Miscellaneous expense, in- cluding com- muted rations.		\$15.09	96. 56		39.05	21, 434, 65 142, 46 N3, 52 75, 44	84.32	69.85		7, 598. 47 1, 597. 41 14, 038. 10 9, 001. 59 10, 973. 44 27. 42 486. 30
	Accrued pay.			\$34,691.96			43, 129; 0% 20, 177. 62			6,816.36	593, 508, 61 330, 226, 67 503, 728, 69 325, 583, 50 12, 717, 91 121, 335, 60
	Name of vessel.	MIN'ELLANEOUS—continued.	Thomas Graham	Torrecto testing barge No. 3 Torrecto testing barge No. 4			Submarine repair division. Philadelphia Naval forces in Eastern waters. Destroyer Division No. 22 Destroyer Division No. 12 Destroyer Division No. 12	Destroyer Division No. 29. Seamen's quarters, Washing- ton, D. C.	Receiving ship, Olongapo	tilla, Cavite, P. 1	A Ship, Charles and A Ship
	, S	ĺ	2264	2 X X	Š	######################################			0068	ROPA	8026 8026 8026 8027 8027

37			04 48	0000	97-180	* C G	287.24 507.52 218.01 033.37	05
363,974.37 1,167,083.41	13,865.25 25,718.21	3, 621. 62 1, 782, 819. 52 898, 439. 76 2, 359, 849. 43	13, 713. 04 271, 491. 48 140, 380. 67	87, 031. 9 132, 843. 7 170, 950. 3 584, 399. 0	5, 147, 607 1, 837, 485 5, 619 56, 121	5,417 195,572 192,232	24, 287. 150, 507. 218. 141, 033.	25, 470, 160. 90
373, 634. 57		3, 363. 73 4, 846. 65 6, 383. 88 3, 373. 78	1, 735. 22	10.35	6,640.63 689.50 15.00	478.68	16,87	1, 763, 239. 98
450.00 3, 894. 49	7, 640.00	13, 162, 40 466, 791, 84 23, 800, 97	257.50 374.78 2,386.75	1,975.37	20, 502, 50 1, 579, 59	3,308.78	320.00 53,313.45 943,97	2, 505, 373. 60
363, 403.05 859, 564.35	6, 225. 25 25, 718. 21	257. 89 1, 764, 811. 47 425, 263. 94 2, 332, 674. 68	14,010,54 269,381.48 137,963.92	87,031,59 132,833,41 170,050,32 582,283,84		0,417.28 195,063.52 188,923.51	23,567.24 97,147.20 218,01 141,977.34	4,871,108.13 21,201,547.32
1,047.46	31.03	257.89 218,132.02 29,804.40 612,668.06	1,938.67 266,153.93 137,993.92	13, 129.04 6.9.15 1.0, 757.85	619, 473. 60 459, 671. 38 5, 444. 23 46, 030. 65	124, 111. £9 150, 353. 14	78, 575. 48 84, 701. 96	4, 871, 108. 13
12, 490.63	849.01	49, 208.03 376, 631.70 13, 511.86	7, C39. 49		8, 85, 93, 93, 93, 93, 93, 93, 93, 93, 93, 93	0,447.28 639.71 10,050.27	18, 571. 72 57, 275. 38	896,918.98
362, 355. 59	5,345.21 25,718.21	1, 457, 171. 42 18, 821. 84 1, 706, 494. 76	5, (32.38 3, 227.55	115,330.84 169,836.90 438,739.95	1, 371, 677. 67	70,341.82 28,520.10	23,967.24 218.01	15, 433, 520. 21
phia phia Ships, Europe Small-craft supply office, Divi-		European waters. Receiving ship, ean Francisco. Submarine base, New London. Receiving ship, Mare Island. Destroyer nay office. Mare 1s.	Submarine base, sap Pedro Submarine base, Pearl Harbor. Handline chartes, naval dis-	trict, New York. Yard craft, navy yard, Norfolk. Receiving ship at Portsmouth. Receiving ship at Boston.	Receiving ship at New York. Fard craft, Boston. Fullsted personnel, New York. Committeen stones.	Attantic Fleet ar force. Parific Fleet air force. Division 18, destroyer force.	l'acific Pleet. Submarine Division No. 5 Destroyer Division No. 16 Submarine base, Coco Solo.	Total

1922. [First quarter.]

			Title C.							Status.1	
N. O.	Name of vessel.	Accrued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operat- ing expenses.	Equipage.	Repairs and allerations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of commission.
	MINCELLANEOUS.		-	!		; 					
3360	Boston			\$10, 295. 52	\$10, 295, 52	16.6998	\$307. 43	\$11,357.86			
8	(rane No. 1 (ex-Koarsarge)	70 000 210			2000 000		395, 206. 81	385, 206. 81			
2 3		41, 8/8. 34 50 378 04	76 30	10,941.02	21, 223, 73	2, 200. /4	0, 137. 30	3,804.00	:		9
3	Pyro	63, 395, 71	2,085,53	38,678,33	104, 169, 57	26.57	3, 230, 19	107, 426, 83			
791×				1,682,30	1,682,30	134. 1×		1,816.4×	8		
250	Torpedo testing barge No. 3	15,901.97		3,913.68	19, 815, 65	990. 41	1, 815. 46	22, 621. 52	:		
X 13	Torpedo testing barge No. 4	1 00: 01	266.50	×, 4, 23, 65	×,5	:		×. 588. 16	-	:	
705	Weter barke No. 30	A		3,042,40	10,505.42	85.80	١, عصر ١	11,385,51		:	:
į	Weehawken	(W 707			8	70.05	1 759 x7	1.759.87			
808	Naval forces, eastern waters	766.95	4, 720, 86		5, 487. 81	185.00	146.94	5,819.75			
	Submarine base, Asiatic	:		9.05	9.03	36.46	395.60	641.20			:
900	Receiving ship Hampton Roads.	210, 136. 77	90 140	1,386.95	211,523,72	3	19.32	211, 607. 27	-	:	:
	December of the North	:	200	16 002 00	193 949 561	8 31	88	195 419 00			
	Receiving ship Puret Sound		283.	x, 702, x	20,52	100	1 36 2 36 3 36 3 36 3 36	70,460,16			
8	Receiving ship Cavite	99, 435. 21	3.	36, 278, 23	135, 715. 38	2		135, 721. 02			
	Yard craft, Mare Island			10.08	1,01.8	252.30	212, 52	1,759.68	-		
100	Ships, Naval Academy			13,062,18	23, 082, 18	2,7	1, 205. 23	10, 467. 37		-	:::::::::::::::::::::::::::::::::::::::
	Receiving saip New port		62 602	10 701 7	77 000 03	‡ •		1	-		:
3	Receiving thin Keywest	2, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	2, 28. 20	4, LZ/. WI	30,000.4	5	:	20,000. #	-		
8	A section of Asset North	3,45,13	21,006,00	2 21.6	162, 900. 73	3.51		132, 902, 73	:		
Î	Renatating able Damagedle			28 40x 8x	25 . S.S S.S.			2			
	Reselving ship Washington	12 121 266	820 26		22 777	17 191 00	213 92	246 772 71		<u> </u>	
3	Receiving thin Pearl Harbor	67, 700, 20	X X X	4	712.08	8		58, 812, 30			
3	غة	51, 510, 73		7. 906. A	57, 507, 54	25, 12		57, 532.06			
- 1			_		-		_		_	_	

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220 200 35 35 35 35 35 35 35 35 35 35 35 35 35	220, 678, 36 518, 435, 97 460, 126, 97 2, 615, 28		4, 003. 01	*	Credit.
				4, 459,	<u>.</u>
	546.50 75.00	24. S		416, 272.31	
23.23	2, 780. 16 320. 78	3, 421.86		135, 343, 37	
20, 220. K3 3, 902. 01 46, 537. 14	519, 772, 50 518, 109, 31 518, 109, 31 518, 730, 45 75, 00 2, 615, 28	148, 488, 38 19, 722, 48 3, 956, 30 36, 243, 01	94, 518, 32	3, 907, 847. 66	therwise shown
20, 220, K3 3, 902, 01 131, 74	40, 329, 92 84, 647, 77 59, 379, 82	40, 473. 43 19, 722. 48 21, 907. 91	4, 093. 01	786, 654. 79	All miscellancous out of commission 92 days unless otherwise shown
166.00	1, 826.25 2, 604.78 149.25 2, 615.28		399. 60	172, 159. 37	of commission
		20, 226. 64 0.00	94, 118, 72 399, 60 plane	2, 949, 033. 50	scellancous out
Submarine base, Pearl Harbor. Yard craft, navy yard, Norfolk. Receiving ship at Portemonth.	Receiving ship at Boston Receiving ship at New York Receiving ship at Philadolphia Commissary stores	Atlantic Fleet air force. Pacific Fleet air force. Submarine Division No. 5. Submarine Division No. 7. Yard anlisted force, took Solo.		Total	1 All mis
255	2223	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	868	1	

RECEIVING SHIPS.

Mr. Kelley. I would like to know a little something about these receiving ships. Take the one at New York; last year it amounted to \$5,147,607.19. Just how does that operate?

Admiral Potter. You will notice that the great item is accrude pay of the men who pass through. There is a building, a receiving barracks, and the men are brought in from other stations or an They are fitted out and given some instruction, locally enlisted. and all of their pay is carried there at that time; they are given some discipline and drill until the ship to which they are assigned arrives when they are put on it. There is actually a building there, and then there is always one ship there which is regarded as the station But there is actually a building there and there are administrative offices which relate to the assembling and receiving of the enlisted men and also the officers who pour in there to be distributed to the ships of the fleet. Similarly, when they come back for discharge the men are often put in there, if they are to be discharged on a give date, for a week or a month, or if their ship is to sail they will be detached from the ship for physical convenience and in order to save money; when a ship is going to a foreign station they will be taken d and put there, and their pay is all carried as if it were a receiving ship

Mr. OLIVER. You are also authorized to advance their discharge

under those conditions!

Admiral Potter. Yes, sir.

Mr. Oliver. In order to save money?

Admiral Potter. Yes, sir; within three months, I think it is.

Mr. Kelley. Then the bulk of this is for the pay of the enlisted men and officers who are awaiting either to be discharged or to go a board a ship?

Admiral Potter. Yes, sir.

Mr. Kelley. As they pass through there?

Admiral Potter. Yes, sir.

Mr. Kelley. Is this the largest distributing place you have! Admiral POTTER. Hampton Roads is next, but it is much smaller \$1,542,340.68, of which the accrued pay was nearly \$600,000.

Mr. Kelley. One would naturally think that Hampton Road would have more boys like that than New York. Does the nave

district business increase this in any way?

Admiral Potter. We have the naval district separately.

Mr. Kelley. But it does not increase this?

Admiral Potter. No. sir; I do not see how it could. Admiral Coont can tell you about that better than I can, but I do not see how it could Mr. Kelley. In 1921 at Mare Island it amounted to \$2,359,849.43

Admiral Potter. Yes; of which \$1,706,000 was for accrued page For stores issued, which was mostly the rations, it was \$612,000.

Mr. Kelley. To accompany this statement could you put in statement which would segregate the expenses of the receiving ship from the total?

Admiral Potter. Yes, sir.

Mr. Kelley. So we will know what part of the \$25,470,000 in 1921 was for receiving ships and what part for miscellaneous craft.

Admiral POTTER. Yes, sir.

Mr. Kelley. And do the same thing for each year?

Admiral Potter. Yes, sir.

			Title C.							Status.	
ò	Name of vessel.	Acerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operat- ing expenses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced complements in reserve or ordinary.	Days out of commission.
Ī	RECEIVING SHIPS.										
	Receiving ship at- Portsmouth Boston New York Philadelphia Norfolk (Charleston Mare Island San Frarcisco, Calif		., ., .,	\$26, 712, 98 716, 519, 52 73, 591, 71 38, 580, 63 235, 712, 74 235, 712, 74 325, 46 31, 66, 415, 69	\$10,827.90 475,244.36 87,118.72 963,967.39 453,670.96 1,096,431.44 33,700.13 331,538.33		\$105.70 \$11.05 \$45.21 \$23.75 5.00	\$10,827,90 475,350,06 80,118,72 954,478,44 453,716,17 1,096,455,19 34,075,13 331,63			
	Cavite	26, 997. 44 10, 177. 49	, 237. 79 525. 90	1,242.87 3,606.73			70.87	28,478.10 14,380.99			
	Total	3,057,619.22	131,953.92	588, 546. 56	<u> </u>	3,778, 119. 70	2,484.34	3,780,604.04			

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8	NAVY D	EPA	RTM	Œ	N]	г.	A]	PF	R	OF	R	ΙA	T	0	N	B	IJ	LL	, 1
!	Days out of commission.	•	:						: : : : : : : : : : : : : : : : : : : :			:			: : : : : : : : : : : : : : : : : : : :				
Status .	Operating with reduced complecements in reserve or ordinary.					:						:							
	Days in full com- mission.														•				
:	Total main- tenance and operation.		\$170,950.32	27. 42	5, 147, 607. 19	1, 837, 485. 97	1, 624, 33	637, 599. 48	440,015.53	439,854,35	1, 343, 189. 07	1, 782, 819. 52	583, 697, 89	162, 873.93	43K, 667. 80	1.800.39	248,948.68	25, 718. 21	17, 011, 018. 37
	Repairs and alterations to ships, including equipage.			\$1.89. %D	6,640.63	25.55	12.92	5.24	164. 17	979.91		4, 845.65	2,008.01		1,303.15				20, 206. 43
.—	Equipage.	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1, 975.37	20, 902, 50	30 791 72		1, 443, 40	4, 196, 24	1,580.4		13, 162, 40	10.000.00	455.03	4, (44, 28		954. X6		107, 561. 02
	Total operating expenses.		\$170,950.32	27.42	5, 120, 064, 06	1, 855, 216, 88	1,611.41	(36, 150, 84	135, 655, 12	436, 396, 13									16, 883, 250. 92
	Stores issued, including provisions.	:	\$649.15	140, (57. %)	619, 473.60	459, 671.38	17.00	35, 044. 76	71, 383, 23	57,55		218, 132, 02	68.961.30	2, 610. 22	95, x83, 42	1.800.39	37, 218. 50		2, 452, 857. 43
Title C.	Miscellaneous expense, in- cluding com- muted rations.		3	2, 785.04	48,309.02	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	1, 597. 41	7, 596. 47	14, 036. 16	34, 006, 30	37, 940. 20	49, 208, 03	9,001.59	71.35	10, 973. 44	08.80	116.86		203, 404. 92
	Acenied pay.		\$169, 836.90	438, 739. Wo	4, 452, 221. 44	1,371,677.67		553		345, 541, 90	1,305	1,497		159	33			25, 718. 21	14, 166, 898. 57
	Name of vessel.	RECEIVING SHIPS.	Receiving ship at— Portsmouth	Newrort	New York	Fhi'adelphia	Norfolk			New Orleans			Puget Sound			Wongapo.	Guantanamo		Total
	S. O.	 				-	-								_	_			

		Title C.							Status.1	
Name of vessel.	Acerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including provisions.	Total operat- ing exponses.	Equipage.	Repairs and alterations to ships, including equipage.	Total main- tenance and operation.	Days in full commission.	Operating with reduced complements in reserve or ordinary.	Days out of com- mission.
Receiving ship at— Portsmouth Boston	\$46, 236. 40 177, 616. 32	\$169.00 1, 826.26	\$131. 74 40, 329. 92	\$46, 537. 14 219, 772. 50	\$22. 20 905. HG		\$46 , 560. 34 220, 678. 36			
New Port.	427, 856. 76		:	<u>:</u> _	2, 780, 16	\$546.50	1 49. 44 518, 435. 97			
Washington	228, 431. 71	629.28	26.80 26.80			213.92	246, 732, 71			
Hampton Roads	210, 136. 77		1,386.	211, 523, 72	25.23	19.5	211, 607. 27			
Key West	#, 291.03	1, 581. 50	4, 127. 91	30,000.4		3	50,000.44			
New Orleans	98, 488. 10		18,183.63	132,980.73	12.00	70 966 6	132, 992, 73			
and	276, 646. 70	3,604,34	82,692,72	362, 943. 76	ĵ	92.20	363, 096, 28			
Fuget Sound Pearl Harbor	57, 790, 20		8,702.48	78, 391. 82		03.34	58, 812, 30			
Cavite. Guantanamo	99, 435. 21		36, 278, 23 5, 996, 23 2, 252, 44	135, 715. 38 57, 507. 54 1, 289, 44	5.64 25.12		135, 721. 02 57, 532. 66 1, 282. 44			
Total	2, 594, 873. 04	41,623.61	435, 464. 37	3,071,961.02	63, 898. 15	3, 256. 78	3, 139, 115, 95			

:H3G3-22---14

Mr. Kelley. This item shows that in 1921, \$1,763,239.98 was for repairs and alterations to ships. Could you tell us whether the word "ships" is used to include barracks?

Admiral Potter. It is not.

Mr. Kelley. It might be of value to know what part would be for the ships, because it seems to me as though that is a large amount to put upon any actual ship.

Admiral POTTER. Much of it is evidently for ship charges direct. For instance, the Nennette had repairs and equipage issues of

227,000, and then the *Pyro* had 95,000.

Mr. Kelley. Much of that does not come under barracks?

Admiral Potter. None.

Mr. Kelley. What would you do with a voucher that came through for repairs on barracks out of an appropriation for ships!

Admiral Potter. Repairs on barracks out of an appropriation of

ships ?

Mr. Kelley. Yes.

Admiral POTTER. I think I would be inclined to acertain what the law was.

Mr. Kelley. I mean if the barracks were used as a receiving ship. Admiral Potter. Such a thing would be chargeable against a yard and docks appropriation, and if it came prepared otherwise I hope I would observe it and ascertain the legal authority for it.

Mr. Kelley. You would not be inclined to repair barracks except out of a yards and docks appropriation or some special appropriation?

Admiral POTTER. That would be my offhand opinion. Of course, I would have to see the particular item and determine about its merits.

COST OF NAVAL DISTRICTS.

Mr. Kelley. What did the naval districts cost in 1916?

Admiral POTTER. The naval districts were united with the navy yards at that time and there was no distinguishing amount. In 1921 the district craft cost \$4,307,136.97.

Mr. Kelley. Those include some district craft distinguished from

any craft that we have been considering heretofore?

Admiral Potter. Yes, sir.

Mr. Kelley. Why do you not put in a list of those vessels? We will have to have that, Admiral, by districts.

Admiral POTTER. We can get that from Admiral Coontz.

Mr. Kelley. Of course, this is a large sum of money, \$4,307,136.96 for districts and district vessels, without having a list of the vessels.

Admiral POTTER. We have not the list in the bureau now. I wi

ask Operations for the vessels.

Mr. Kelley. Take the third naval district. In 1921 the district independent now of all other vessels that we have been talking about heretofore, cost \$1,472,048?

Admiral POTTER. Yes, sir.

Mr. Kelley. What is the nature of the district craft?

Admiral POTTER. They are all sorts of small vessels. I think perhaps, Admiral Coontz will be the best man to give you the particulars.

Mr. Kelley. It will be comparatively easy to give us a list of the boats included in this expense of \$4,307,136 in 1921?

Col. ROOSEVELT. You want that for 1921, because the 1921 list es not correspond with this here, because we have already been er the 1921 craft.

Mr. Kelley. How much was the 1922 cost of the districts, includg district craft?

Admiral POTTER. \$819,985.22.

Col. ROOSEVELT. That is an estimate of 28 per cent over the year

Mr. Kelley. The reduction in operating cost has been brought wn lower.

Please put into the record at this point the naval district craft for 21 and for the first three months of 1922, giving the name of the ip or number, if it has not a name, for each district, segregate the ips so we will know the type of ship, and all about it.

Admiral Potter. I think the information can best be furnished by

imiral Coontz.

95.47 10.76 2.171.71 445,348.42 7.012.77 7.01.00 10.20	Name of vessel. NAVAL DISTRICTS. First. svenid Phiral Phiral Phiral Filth	Acertued Pay. 18.139, 288, 06, 8, 747, 86, 8, 747, 86, 873, 101, 726, 801, 801, 801, 801, 801, 801, 801, 801	Title C. Miscellane expense, i cluding communed ratio	Stores issue visions a visions and visions and visions and visions and visions at 14,670,2,023,023,033,334,3010,	Total operating expenses. ##1, 683, 81 12, 176, 93 1, 185, 667, 92 61, 077, 99 772, 324, 01	Equipage. 15.24, 76. 78. 284, 76. 77. 17. 4, 006. 07. 17. 42. 82. 99. 67. 67. 67. 67. 67. 67. 67. 67. 67. 67	Repairs and alferations to ships, including equipage.	Total maintenance and operation. Lion. 12420. 75 1, 472 OH8 49 179, 5048 49 179, 505, 68 19 19 10 18 19 19 19 19 19 19 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Топ-	Date of first in commission.	Months in com- mission
	h th th h	96, 665, 95 3:4, 77 950, 022, 39 11, 089, 13 171, 161, 64		2, 171. 71 29, 143.06 29, 148.13 25, 002.55 45, 284.63 4, 284.51 4, 974.51 4, 974.51	445, 348, 42 11, 682, 64 34, 21, 14 141, 776, 78 82, 315, 42 199, 660, 37 186, 630, 28 63, 791, 80	012. 101. 626. 626. 536. 536.	6, 739. 30	152, 301. 19 12, 134. 43 44, 877. 44 181, 336. 18 82, 315. 42 206, 734. 22 187, 515. 8 187, 515. 8 187, 515. 8 225, 498. 77			

1921.

Days out of commission.

Operating with reduced complements in reserve or ordinary.

Days in full commission.

Status.1

	1		·	<u> </u>	•
		Total main- tenance and operation.		\$215, 88. C2 217, 878.47 217, 878.47 217.28 47, 157.29 17, 580.45 270.55 270.55 28.88.88 28.88.88 35, 580.88 35, 580.88 36, 477.68 37, 580.88 380.88	819, 985. 22
! ! !		Repairs and alterations to ships, including equipage.		886, 800, 00 1,711, 18 1,15, 00 738, 19 890, 88 737, 37 711, 46	35.23
		Equipage.		111 111	40, 979. 08
		Total operating expenses.		\$170.048.02 21,686.20 21,686.80 46,386.85 17,586.43 17,588.10 27,888.10 18,981.75 18,9	778, 970. 91
		Stores issued, including provisions.		\$1, 130, 49 \$0,124, 01 12,006, 20 11,004, 20 2,004, 20 2,004, 20 1,346, 60 1,222, 38	66, 030, 09
	Title C.	Miscellancous expense, in- cluding com- muted rations.	i	\$177, 897. 53 28, 286. 72 28, 286. 72 38, 382. 27 9, 977. 73 50. 50 50. 50 50. 50 50. 50 50. 50 50. 50 50. 50 50. 50 50. 50 50. 50 50 50 50 50 50 50 50 50 50 50 50 50 5	351, 552. 30
	•	Acerued pay.		\$179,781.47 4,781.47 49,541.28 4,424.62 88,307.04 34,552.64	361, 388. 52
-		Name of vessel.	NAVAL DISTRICTS.	First Third Fourth Fourth Fifth Fifth Seventh Eighth Ninth Eieventh Twelfth Thirteenth Fourteenth	Total

1 Credit.

9901 9903 9904 9907 9907 9911 9911 9911 9911

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_		Title C.			Reneire				Months in commission.	commis- 1.
Name of vessel.	Pu Accrued pay.	Public vouchers (including (i commuted rations).	Stores issued (including pro- visions and medical stores).	Total operating expenses.	alterations to ships, includ- ing equipage.	Total mainte- nance and operation.	Tonnage. co	Date of first commission.	Full com- mission.	Commission in reserve.
Grand total.	\$30, 566, 165, 62	\$1 , 130, 192. 55 \$	16, 280, 562, 65	£47, 976, 920. 82	\$ 8, 556, 504. 69	\$56, 533, 425, 51 14, 133, 356, 38		'		
<u> :</u>	:					70, 664, 781. 89				
				1921.						
		Title C.				Repairs and	 :			! !
ine of vessel.	Aerued pay.	Miscellaneous expense, in- cluding com- muted rations.	Stores issued, including pro- visions and medical stores.	Total operating expenses.	Equipage.	alterations to ships, including equipage.	Total maintenance and opera- tion.	Ton- 1	Oate of first ommission.	Months in com- mission.
1	809, 299, 639. 58	<u></u>			43, 678, 678. 81		1206,130,170.94			
 	l :	:		1922. irst quarter.]				ı	·	
		Title C.							Status.	
nne of vessel.	Acerued pay		·		Rqudpage.	Repairs and alterations to ships, includ- ing equipage.	Total main- tenance and operation.	Days in full com- mission.	Operating with reduced compilements in reserve or ordinary.	Days out of com- mission.
	656, 176, 081, 20		915,727,711. KG	7 840, 839, 86A. NS	64, 626, 279, 94		8/10, NSB, SH1. 47			
		Acerued pay. Acerued pay. Acerued pay. Acerued pay. Acerued pay.	### Title C. Title C. Title C. Title C. Title C. Title C. Title C. Title C. Title C. Title C. Title C.	### Accrued Accrued Accrued Accrued Accrued Accrued Childing committed rations ### Title C. Title C. ### Title C. Title C. ### Title C. Title C. ### Title C.	### Accrued pay. ### Accrued pay. ### Accrued pay. ### Accrued pay. Title C.	### Accrued Pay. 18. 78. 816, 280, 362. 65 Title C. Title C.	### Section of St. 130, 192.55 #10, 220, 532.65 #77,970,920.82 #8, 550,504.69 ####################################	### Title C.	1921. Title C. Title C. Title C. Total pays St. 586, 584, 589 146, 583, 586, 589 186, 583, 456, 589 186, 583, 456, 589 186, 583, 456, 589 186, 583, 456, 589 186, 583, 456, 589 186, 583, 589 186,	1921. Trite C. Trite C. Total Repairs and Ending computations Total Equipage 14, 183, 364, 38

TUESDAY, MARCH 7, 1922.

LOCATION AND DISPOSITION OF SHIPS AND THEIR COMPLEMENTS.

CATEMENTS OF HON. EDWIN DENBY, SECRETARY OF THE NAVY; COL. THEODORE ROOSEVELT, ASSISTANT SECRE-TARY OF THE NAVY; ADMIRAL ROBERT E. COONTZ, CHIEF OF NAVAL OPERATIONS; LIEUT. COMMANDER HARRY W. HILL, AID TO THE ADMIRAL; CAPT. PHILIP WILLIAMS, ASSISTANT TO BUREAU OF NAVIGATION; CAPT. EDWARD C. KALBFUS, MATERIAL DIVISION, OPERATIONS; COM-MANDER LAMAR R. LEAHY, AND MR. CLYDE REED, SPECIAL ASSISTANT, BUREAU OF SUPPLIES AND ACCOUNTS.

TRST-LINE BATTLESHIPS TO BE KEPT IN COMMISSION BY TREATY.

Mr. Kelley. We have with us this morning Admiral Coontz and a number of his assistants who will testify directly. The Secretary

and Assistant Secretary are also present.

Admiral Coontz, the matter that we have in mind particularly o-day is the question of ships of the Navy, and we would like to ave from you a statement covering by number and name each ship f each group, approximating as nearly as you can the personnel equired for such ships. If you will take the annual report of the aymaster General of the Navy for 1921, we will start at the begining and carefully run down the list. I think if we do that, that by ight, perhaps, we will have a pretty clear view of what is required. ow, the first ship on the list is the South Carolina. Do you intend have that ship in commission next year?

Admiral Countz. We do not, provided the treaty goes through. Mr. Kelley. So we may eliminate the South Carolina and likewise e Michigan?

Admiral Coontz. Yes, sir.

Mr. Kelley. Do you intend to have the Delaware in commission? Admiral Coontz. We intend to have the Delaware in commission the treaty passes, until she is replaced by the Colorado, we will say. Mr. Kelley. How many men do you calculate you will require the Delaware?

Admiral Coontz. I would like to have Admiral Washington The Secretary's estimate is 95 per cent of the swer as to that. ficial complement.

Mr. Kelley. I notice from a statement filed on April 1, 1921, that

e complement of the Delaware was 1,263.

Admiral Coontz. I would like, however, to verify these figures by imiral Washington.

Mr. Kelley. Ninety-five per cent of that would be about 1,200 in

und numbers. Shall we put her down at 1,200?

Admiral Coontz. I would like to have it put down temporarily at way until we can hear from Admiral Washington or Captain illiams.

Mr. Kelley. Have you the actual number of men that were card on the *Delaware* before the war? Admiral COONTZ. No, sir.

Colonel ROOSEVELT. I can give you that approximately. It was

approximately 830.

Mr. Kelley. You intend to keep in commission, if everything goes well with the treaty, the *Delaware*, the *North Dakota*, the *Florida*, the *Utah*, the *Wyoming*, the *Arkansas*, the *New York*, the *Texas*, the *Nevada*, the *Oklahoma*, the *Pennsylvania*, the *Arizona*, the *New Merico*, the *Mississippi*, the *Idaho*, the *Tennessee*, the *California*, and the *Maryland?*

Admiral COONTZ. Yes, sir. Mr. Kelley. That makes 18? Admiral COONTZ. Yes, sir.

Mr. Kelley. We would like to have you insert in the record a table showing the names of the ships that are to be kept in commission during the coming year, with the complements you are asking for, and also a statement showing the complements in 1916.

Admiral COONTZ. We will do that.

Colonel ROOSEVELT. We have the total of the complement here.

Mr. Kelley. I would like to have it by ships. We would like to have at this point the statement I have indicated covering those battleships.

Admiral Coontz. We will supply that.

List of United States naval vessels to be retained in commission after June 30, 1922, classified according to standard nomenclature.

[Based on 90,000 enlisted strength plus 6,000 apprentice seamen. Men on board July 1, 1916, given when possible. Proposed allowance for 1923 same as that given for 1922.]

	Men on board, July 1, 1916.	Allow- ance for 1922
battleships, first line: Atlantic Fleet—		5.4
Delaware	830	1.00
North Dakota	830	177
Florida	837	î.ii
European waters (flag). Utah	828	1.10
Atlantic Firet—	1.00	317
Wyoming	915	1,22
Arkansas	916	1,22
Pacific Fleet—	1 100	
New York	902	1,25
Texas		3,25
Nevada	********	3.93
Oklahoma	*********	9.88
Pennsylvania	951	1,52
Arizona	********	517
New Mexico	*********	5.8
Mississippi		5-36
Idaho		58
Tennessee		5-2
Maryland (assigned to Pacific Fleet; now flagship of commander in chief		1,0
Atlantic Fleet)		4.00
Atlante Fiece).		Ayer
Total	V-2 - 72-2-17	21,6
		-
attleships, second line:		
Illinois (loaned to State of New York, training Naval Militia)	605	
Connecticut (to be replaced by armored cruiser Seattle if treaty is signed)	844	
		-
Total	*********	- 6
and the first first the second	_	-
attle cruisers, first line, none. Two to be converted to afteraft carriers.		1000
ruisers, second line:		1
Rochester, Atlantic Fleet (descroyers (flag) at Charleston, S. C.)	453	3
Huron, Asiatic Fleet (dagship)	788	

List of United States naval ressels to be retained in commission after June 30, 1922, classified according to standard nomenclature—Continued.

	Men on board, July 1, 1916.	Allow ance for 1922.
cruisers, second line—Continued. Seattle navy yard, Puget Sound, out of commission (Seattle to replace Connecticut if treaty is signed). Pueblo (to replace Utah in European waters, later)	840	
Pueblo (to replace Utah in European waters, later)	778 649	791 649
Total. light cruisers, first line, Omaha (commission when completed May 31, 1922) (two others when completed, 419 men on each).		2, 775 1, 257
light cruisers, second line:		
Special service squadron— Birmingham	356	300
Denver	274	288
Denver. Galveston.	274	288
Tacoma	274	289
Cleveland	274	288
Total		1, 452
aircraft carrier, second line, Langley (ex-Jupiter), being converted at navy yard,	:	004
Norfolk; date of completion. May 1, 1922; will be commissioned about Apr. 1, 1922 mine layers, second line:	• • • • • • • • • • • • • • • • • • • •	339
Pacific Fleet—		
Baltimore, mine squadron; 2 at Pearl Harbor to go out of commission when	1	
relieved by Aroostook.	320	334
Aroostook (aircraft tender; goes to mine force when relieved by Langley)		250
Atlantic Fleet, Shawmut (mine squadron)		369
Total		953
B destroyers, first line:		•••
Distribution of 90 per cent complement destroyers to be retained in commission—		
With Atlantic Fleet		
With Pacific Fleet	1	
With Asiatic Fleet	1	
III European waters		
103×102		10,506
Distribution of 50 per cent complement destroyers to be retained	i	-
in commission at Charleston		1,311
126		
SUMMARY OF DESTROYERS, INCLUDING LIGHT MINE LAYERS, CONVERTED FROM DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE. The on Navy list: Destroyers, first line		
DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE.		
DESTROYERS, FIRST LINE. Destroyers, first line		
DESTROYERS, FIRST LINE. Destroyers, first line		
DESTROYERS, FIRST LINE. Destroyers, first line 283 Destroyers, second line 21 Light mine layers (converted destroyers, first line) 14 Total destroyer hulls (including those in commission and out of commission) 318 troyers, second line, none. Atlantic mine squadron—		
DESTROYERS, FIRST LINE. Destroyers, first line		
DESTROYERS, FIRST LINE. Destroyers, first line		99
DESTROYERS, FIRST LINE. Destroyers, first line		99 98
DESTROYERS, FIRST LINE. Let on Navy list: Destroyers, first line 283 Destroyers, second line 21 Light mine layers (converted destroyers, first line) 14 Total destroyer hulls (including those in commission and out of commission) 318 troyers, second line, none. Let mine layers: Atlantic mine squadron— Murray Let all Marray Let all Let all Marray Let all Let all Marray Let all L		99 98 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 94 99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 94 99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 94 99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 94 99 99 90 90 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 94 99 99 90 90 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99 99 99 99 99 99 99 99
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99 99 99 99 99 99 7990
DESTROYERS, FIRST LINE. Destroyers, first line		99 99 99 99 99 99 99 99 99

List of United States naval vessels to be retained in commission after June 30, i classified according to standard nomenclature—Continued.

 	Men on board, July 1, 1916.	Al! 82 6 19
7 submarines, 1 second line, (two-thirds complement):		
S H's (3 in commission 1916). S K's. S L's. 3 N's.	66 192 176	}
5 patrol vessels, Eagles:		==
5 patrol vessels, Eagles: Eagle 6 (at Pearl Harbor, engaged in antisubmarine tactics). Eagle 7 (at Pearl Harbor, engaged in antisubmarine tactics). Eagle 8 (at Pearl Harbor, engaged in antisubmarine tactics). Eagle 9 (fifth naval district, training reservists). Eagle 19 (duty with submarines, San Pedro). Eagle 12 (training reservists, eleventh naval district). Eagle 13 (training reservists, third naval district). Eagle 14 (duty with submarines at Pearl Harbor). Eagle 15 (training reservists, third naval district). Eagle 17 (duty with submarines at Pearl Harbor). Eagle 19 (training reservists, first naval district). Eagle 23 (on duty, Quantico, freight and passengers to Washington). Eagle 25 (training reservists, third naval district). Eagle 27 (training reservists, third naval district).		
Eagle 11 (duty with submarines, San Pedro) Eagle 12 (training reservists, eleventh naval district)		Ċ
Eagle 13 (training reservists, faired navai district). Eagle 14 (duty with submarines at Pearl Harbor). Eagle 15 (training reservists, third naval district).		¢.
Eagle 17 (du'y with submatines, Hambton Roads). Eagle 19 (training reservists, first naval district). Eagle 23 (on duty, Quantico, freight and passengers to Washington)		(
Eagle 27 (training receivists, third naval district). Eagle 27 (training receivists, third naval district). Eagle 29 (training receivists, first naval district). Eagle 31 (duty with submarines at Coc Solo). Eagle 33 (duty with submarines, New London).		
Eagle 31 (duty with submarines at Coco Solo) Eagle 34 (training reservists, eleventh naval district) Eagle 35 (training reservists, eleventh naval district)		:
Eagle 34 (training reservists, eleventh naval district) Eagle 35 (training reservists, twelfth naval district) Eagle 36 (training reservists, eighth naval district) Eagle 38 (training reservists, eighth naval district) Eagle 39 (training reservists, chirteenth naval district)	· · · · · · · · · · · · · · · · · · ·	
Eagle 3) (training reservists, seventh naval district) Eagle 49 (duty air station, Pearl Harbor) Eagle 42 training reservists, first naval district) Eagle 44, training reservists, third naval district		(
Eagel 47, training reservists, t wellth naval district Eagle 48, training reservists, third naval district Fagle 51, training reservists, third naval district		
Eagle 44, training reservists, third naval district Eagle 47, training reservists, twelfth naval district Eagle 54, training reservists, third naval district Eagle 51, training reservists, third naval district Eagle 52, training reservists, fourth naval district Eagle 54, training reservists, third naval district Eagle 55, training reservists, third naval district Eagle 56, training reservists, third naval district Eagle 57, training reservists, Washington, D. C. Eagle 57, training reservists, thirdenth naval district Eagle 58, training reservists, thirdenth naval district Eagle 59, training reservists, than the content of the c		
Eagle 56, training reservists, Washington, D. C. Eagle 57, training reservists, thirteenth naval district		
Total		
n commission (35):		
Training reservists 25 Submarine duties 8 Alested ion duty 1	į	
Air station duty		
Total	1	
Total		ı
3 patrol vessels, submarine chasers: Submarine chaser 57, Naval Academy, intermittently training midshipmen Submarine chaser 63, St. Louis, training reservists		
Submarine chaser 64, St. Louis, training reservists. Submarine chaser 69, St. Petersburg, training reservists. Submarine chaser 102, Naval Academy, intermittently training midshipmen		
Submarine chaser 103, New Haven, Conn., training reservists Submarine chaser 104, Tampa, Fla., training reservists Submarine chaser 143, New York, training reservists.		
Submarine chaser 154, seventh haval district. Submarine chaser 159, eighth naval district, station duties, New Orleans Submarine chaser 185, Dahlgren, Va., proving ground duties	•••••••	
Submarine chaser 57, Naval Academy, intermittently training midshipmen. Submarine chaser 63, St. Louis, training reservists. Submarine chaser 64, St. Louis, training reservists. Submarine chaser 69, St. Petersburg, training reservists. Submarine chaser 102, Naval Academy, intermittently training midshipmen. Submarine chaser 103, New Haven, Conn., training reservists. Submarine chaser 104, Tampa, Fla., training reservists. Submarine chaser 143, New York, training reservists. Submarine chaser 154, seventh naval district. Submarine chaser 154, seventh naval district. station duties, New Orleans. Submarine chaser 155, Dahlgren, Va., proving ground duties. Submarine chaser 191, eighth naval district, training reservists. Submarine chaser 192, Indianhead, Md., proving ground duties. Submarine chaser 210, navy yard, Washington, training reservists. Submarine chaser 211, Haiti activities, marine brigade, Haiti.	•••••••	
oupm mae chaser 214, mani activities, marine brigade, main		

With submarine base.
Manned with Air Service personnel.

List of United States naval vessels to be retained in commission after June 30, 1922, classified according to standard nomenclature—Continued.

	Men on board, July 1, 1916.	Allow- ance for 1922.
43 patrol vessels, submarine chasers—continued. Submarine chaser 224, New York, training reservists. Submarine chaser 229, Naval Academy, intermittently training midshipmen Submarine chaser 231, Naval Academy, intermittently training midshipmen Submarine chaser 237, Naval Academy, intermittently training midshipmen Submarine chaser 231, Indianhead, Md., out of commission		3 4 4 4
Submarine chaser 229, Naval Academy, intermittently training midshipmen. Submarine chaser 231, Naval Academy, intermittently training midshipmen. Submarine chaser 231, Naval Academy, intermittently training midshipmen. Submarine chaser 251, Indianhead, Md., out of commission. Submarine chaser 253, Hatti activities, marine brigade, Haiti. Submarine chaser 271, Stamford, Conn., training reservists. Submarine chaser 277, eleventh naval district, duty with reserve destroyer force. Submarine chaser 278, eleventh naval district, duty with reserve destroyer force. Submarine chaser 284, fifteenth naval district, submarine operations. Submarine chaser 287, fifteenth naval district, saplane tender. Submarine chaser 306, twelfth naval district, calibration compasses. Submarine chaser 306, eleventh naval district.		17 3 7 7 7 7 7 7
Submarine chaser 306, eleventh naval district. Submarine chaser 328, Naval Academy, intermittently training midshipmen. Submarine chaser 328, Naval Academy, intermittently training midshipmen. Submarine chaser 330, ninth naval district, training reservists. Submarine chaser 340, Guantanamo, St. Thomas. Submarine chaser 408, first naval district, general district duties. Submarine chaser 412, ninth naval district, training reservists. Submarine chaser 419, ninth naval district, training reservists. Submarine chaser 431, ninth naval district, ordnance, third naval district, for		3 7 7 7 7 7 7 7 7 7 7 7 4 4 4 3 9 9 7 7 3 3 3
training reservists. Submarine chaser 432 ninth naval district, at Cleveland, training reservists. Submarine chaser 433, ninth naval district, ordnance, third naval district, training reservists. Submarine chaser 437, ninth naval district, ordnance, third naval district, train-		3 3 3
ing reservists. Submarine chaser 440, Naval Academy, intermittently training midshipmen. Submarine chaser 443, San Domingo, duties connection military government Dominican Republic. Submarine chaser 444, San Domingo, duties connection military government Dominican Republic. Submarine chaser 96 and 338, at Constantinople, being used until can be sold Total.		17 17261
SUMMARY, SUBCHASERS. Paining midshipmen.		
Total	169 45 135 45	162 46 152 46 148 93
Pampanga, Asiatic Fleet, South China patrol. Quyros, Asiatic Fleet, Yangtze patrol. Villalobos, Asiatic Fleet, Yangtze patrol. Total.	29 54 54	30 55 55 787
i patrol vessels, yachts: Mayflower, navy yard, Washington (President's yacht). Vixen, naval station, St. Thomas (station ship). Sylph, navy yard, Washington (Navy Department tender). Nokomis, San Domingo City (station ship and transport for military government) isabel, Asiatic Fleet, Yangtze patrol. Scorpion, Constantinople station ship.	172 74 28	160 72 32 66 83 132
Total		545
auxiliaries, destroyer tenders: Melville	315	449 440

[•] Manned by men from Scorpion or destroyers.

List of United States naval vessels to be retained in commission after June 30, 1922. classified according to standard nomenclature—Continued.

:	Men on board, July 1, 1916.	Allow- auce for 1922.
6 auxiliaries, destroyer tenders - Continued. Bridgeport. Altair. Deuebola		531 430 430
Denebola. Rigel. Total.		2,739
Auxiliaries, submarine tenders: Fulton Bushnell	129 145	134
Beaver Camden Rainbow Sayannah	217	湖湖
Canopus Total	·	1,82
Auxiliary, aircraft tender: Wright, air squadron, Atlantic		***
Auxiliaries, repair ships: Prometheus, Atlantic Fleet (train). Vestal, Pacific Fleet (train).	230 230	a
Total		8 80
Bridge, Atlantic Fleet (train) Rappahannock, Pacific Fleet (train) Arctic, Atlantic Fleet (train).		15
Total. 4 auxiliaries, colliers: Proteus, At'antic Fleet. Nereus, At'antic Fleet. Orion, Atlantic Fleet. Jason, Pacific Fleet.	91 91 91 91	966 190 190 191 191
Total		
10 auxiliaries, oilers: Arethusa, N. T. S., Atiantic. Brazos, Atlantic Freet. Cuyama, Pacific Fleet. Kanawha, Pacific Fleet. Neches, Pacific Fleet. Patořa, N. T. S., Pacific. Pecos, Asiatic Fleet Ramano, N. T. S., Pacific.	76	
Ramapo, N. T. S., Pacific. Sapelo, N. T. S., Atlantic. Trinity, N. T. S., Atlantic. Total.		1,00
2 auxiliaries, ammunition sbips: Pyro, N. T. S Nitro, N. T. S		
Nitro, N. T. S		
Sauxiliaries, cargo ships: Kittery Newport News. Bath. Capello. Syrius Vega. Regulus. Beaufort. Total.		

'nited States naval vessels to be retained in commission after June 30, 1922, classified according to standard nomenclature—Continued.

	Men on board, July 1, 1916.	Allow- ance for 1922.
s, transports:		397
ieont		222 214
I		833
s, hospital ships:		
		361 348
1		709
.cs, fleet tugs: ook,5 on duty with Atlantic Fleet.		39
	34	39
ı'm,º Guantanamo, general towing. Guam, island duties 办 Samoa, island duties	49	39 54
1,3 Haiti, island duties.	27 45	34
······································	46 45	
ac. ⁵ Santo Domingo, island towing a, ⁵ on duty with Pacific Fleet. ac. ⁶ St. Thomas, island duties.	36 49	42 54 39
sar, st. I nomas, island dunes.	26	
I		340
SUMMARY OF FLEET TUGS.		
tations6		
1		
Guantanamo, train, Atlantic		45 41
al, San Pedro, train, Pacific.		45 5
w. Bremerton, thirteenth district. r. Pearl Harbor, mine squadron, Pacific: al, San Pedro, train, Pacific. Guantanamo, mine squadron, Atlantic Cavite, mine squadron, Asiatic. Guantanamo, train, Atlantic. Ige, San Diego, train, Pacific.		54 45
lge. San Diego, train, Pacific		45 45
rge, San Jugo, train, Facilic nk, Guantanamo, train, Atlantic juantanamo, mine force, Atlantic harieston, air squadron, Atlantic		54 45
		45 45
vantanamo, train, Atlantic		45 54
Pearl Harbor, mine squadron, Pacific n. Pearl Harbor, mine squadron, Pacific n. Pearl Harbor, mine squadron, Pacific		54 45
n. Pearl Harbor, mine squadron, Pacific oorwill, Pearl Harbor, mine squadron, Pacific		54 54
oorwii, reari Harbor, mine squadron, Pacific 1, Cavite, mine squadron, Astatic 1k, Guantanamo, mine squadron, Atlantic 1k, Guantanamo, mine squadron, Atlantic 1, San Pedro, seaplane tender, Pacific 1, Guantanamo, mine squadron, Atlantic 1, Guantanamo, train Atlantic 1, Guantanamo, train Atlantic		41 54 54 54 54 54 54 54 54 55 45 54 54 54
. San Pedro, seaplane tender, Pacific		42 54
per, Miami, air squadron, Atlantic.		45 45
1		127
SUMMARY OF MINE SWEEPERS.		
in 5		
ir squadron 2 ine squadron 4		1
ne squadron	i	
tender 1 salvage 1	1	
io calibration	1	
26	 	noludal !=

 $[\]mathbf{w}\,\mathbf{s}$ of these tugs are included in the "forces afloat," those of the remaining 29 are included in blishments."

List of United States naval ressels to be retained in commission after June 30, classified according to standard nomenclature—Continued.

	Men on board. July 1, 1916.	A a 1
Coaned to Shipping Board		
Total. 49 4 auxiliaries, miscellaneous: Hannibal, survey ship, now at work, coast Honduras.	143 88	
General Alava, Asiatic station, transport, Cavite to Olongapo. Paducah, navy yard, Portsmouth, assigned ninth naval district for United States Naval Reserve Force. Gold Star, fitting out at Philadelphia: Alaska radio repair ship; replaces Saturn	160	
Antares, target repair ship. Procyon, target repair ship. Total		
25 unclassified: Nore.—Men on receiving ships are carried under "shore establishments;" men on vessels training naval reserves belong to "forces afloat." Chevenne, 4 training ship, U. S. Naval Reserve Force, fifth district, Baltimore	210	- ===
Essex, s ninth naval district, training, U.S. Naval Reserve Force. Gopher, s ninth naval district, training, U.S. Naval Reserve Force.	377 6 12	
Hawk, ininth naval district, training, U. S. Naval Reserve Force.	638 35	
Wilmette, ninth naval district, training, U. S. Naval Reserve Force.	55	·
Wolverine, 5 fourth naval district, training, U. S. Naval Reserve Force		
Bureau of Fisheries— Albatross		
Fish Hawk		
Flag complement Fleet aviation Total	•••••	
Grand total		

The crews of these vessels are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; those of the remainder are included in the "forces affoat"; the properties affoat in the

House of Representatives, Committee on Appropriations, Washington, D. C., March 20, 19i

My Dear Captain: The inclosure has been returned with the manuscript of testimony of the 7th instant, which you submit as an insert in response to my request but it is not as complete as I desire it. it is not clearly headed, and it is class differently than the classification used in the first day's hearings, of which it for part. This, of course, would make it very confusing to anyone reading the hear. The Chief of Naval Operations presented to the committee at the opening of hearings a "List of vessels to be in commission after June 30, 1922, tabulated it cordance with classification of annual report of the Paymaster General of the N for the fiscal year 1921—Statement No. 4." and the first day's hearings were condumated in accordance with such submission. Therefore, what I want is a list prepare accordance with that classification, class by class and vessel by vessel, showing each (1) the actual number of men aboard on July 1, 1916, or some certain dat 1916, to be specified; (2) the actual number of men aboard such vessels on February 1922, so as to conform with the data supplied the House Naval Committee printed by said committee as Circular No. 42, and used at our hearings; and (3) complements you are proposing for the fiscal year 1923. Such is the statement I wand if I did not make myself clear I am sorry that it is necessary to occasion you additional work. It is quite important that I have this revised table Tuesday after

Under column 2 of the table please put an asterisk (*) before the number of men on oard a vessel which will be engaged upon different duties in 1923, necessitating dditional or less personnel, with a general explanatory footnote, as, for example, ne Pueblo and Seattle, and put a double asterisk (**) in column 2 before the number of sen on board a vessel which is doing duty taking personnel chargeable to the shore stablishment, as, for example the *Pueblo*, now used as a receiving ship.

I notice in the inclosure that you include both the *Connecticut* and the *Seattle*.

I the latter is to relieve the former I do not see why you count the men on both.

Lease watch out for such things in the new statement.

I also notice that you state the inclosure is based on 90,000 enlisted men, plus .000 apprentices. Please bear in mind that the classification submitted at the first my's hearings was not submitted pursuant to any suggestion or request that it be conmed to any particular number of men.

Kindly return the inclosure with your revised statement, of which latter two copies

re required.

Very sincerely,

P. H. Kelley, Chairman Naval Subcommittee.

Capt. Philip Williams, U. S. Navy, Bureau of Navigation, Navy Department.

> NAVY DEPARTMENT, Washington, March 22, 1922.

MY DEAR MR. KELLEY: Replying to your letter of March 21 addressed to Capt. Sailip Williams, U. S. Navy, Bureau of Navigation, I regret that the list which was merted in the testimony of the 7th for your committee is not as complete as you desire and is not headed and classified the way you want it, for I wish to assure the com-littee that I am only too anxious to furnish all the information possible in the way which it will be of most use to the members.

Referring to this list of vessels, however, I wish to state that there was no list of vessels be in commission after June 30, 1922, tabulated in accordance with classification annual report of the Paymaster General of the Navy for the fiscal year 1921, statemat No. 4, furnished the committee by the Chief of Naval Operations on the opening the hearings, and that the only attempt made in the short time at hand after receivyour request regarding same was to check with pencil on statement No. 4 the list vessels that it was desired to retain in commission after June 30, 1922, including beiving ships, district craft, etc., which was done in five copies of the annual report the Paymaster General and given to your committee on the 7th. The typewritten which was presented to your committee on the 7th by the Chief of Naval Operawas a copy of the one that you have returned, except that it had no mention of men on board the ships listed there, or the allowance for 1922-23.

As soon as your letter of the 21st to Captain Williams was received in the depart-

mt. steps were taken immediately to tabulate the information requested therein, I regret to say that so much work is involved that it was found to be physically possible to have this new table ready for you Tuesday afternoon as you requested. Referring to the notation at the top of the list stating that it is based on 90,000 fisted men plus 6,000 apprentices, I understand perfectly that the committee made mention of any enlisted strength in regard to any list, but before a list can be made a definite number of men must be taken as a basis, and for the basis in compiling hist furnished the committee an enlisted strength of 90,000 men plus 6,000 ap-

stices was taken.

wiew of the fact that so much of the hearings on the succeeding days refer to this classified in accordance with the standard nomenclature which is gotten from the date book, 1921," it is requested that this list be published together with that seconding to statement 4 of the Paymaster General's annual report for 1921. scheding both the Connecticut and Seattle was due to placing the allowance for the for 1922 rather than the number of men that she had on board July 1, 1916. mistake has been rectified, and I trust that you will find no others, although king under the pressure that has been required of those compiling these lists, it is fying to feel that more errors have not occurred.

that you will not hesitate to call upon me for any further information have be of value to the committee, I beg to remain,

Very sincerely, yours,

THOS. WASHINGTON, Acting.

PATRICK H. KELLEY, House of Representatives, Washington, D. C.

List of ressels to be in commission after June 30, 1922—Tabulated in accordance classification of annual report of the Paymaster General of the Navy for the fiscal 1921-Statement 4.

	1	916	15	922	P
Vessels.	Comple- ment,	On board July 1.	Comple- ment,	On board Feb. 1.	1
sattleships:				1	
First line—	830	803	* ***	00*	ļ.
Delaware	830	277	1,198	935	
North Dakota	837	904	1,196	995 868	
Florida	828	862	1,196	879	
Wyoming		1,002			
Arkansas	916	956	1,289	1,048	
New York.		933	1,308	1,037	
Texas	902	932	1,308		
Nevada		932	1, 186	1,039	
Oklahoma	920	894	1,186	929	
Pennsylvania		788	1,238	1,029	
Arizona	951	100	1, 232	988	7
New Mexico.	951		1 979	1,062	
Mississippi		1000	1, 232	997	
Idaho	951	********	1, 232	974	
Tennessee			1,266	998	1
California			1,266	1, 294	į.
Maryland	301		1, 266	1, 154	
Maryland		*********	1, 200		-
Total	(1)	(1)	········	18, 259	L
Second line—	1000000				Г
Illinois (training reserves)	605	290	60	47	н
Connecticut 1	844	275	550	542	L
Total				589	
ruisers:					
Armored—		1 7 7 1	1 7 2 1		-
Huron	788	439	791	684	1
Pueblo 2	778	426	320	320	10
Seattle 3	778	840	791	********	
Total				1,004	
				1,00%	b
First class—			7 100		
Charleston	649	279	142	193	
Rochester	453	141	544	366	П
Total				559	٠
Second class—Omaha, plus two others				339	
, p			***************************************		=
Third class—				1	
Birmingham		381	300	276	1
Cleveland		278	288	296	
Denver		269	288	303	
Galveston	274	255	288	302	
Tacoma	274	65	288	277	L
Total				1 474	
onitor: ('heyenne (training reserves)	210	153	34	1,454	
•		-		-	÷
estroyers:			40.00		
103 vessels			11,742	9,608	1
23 vessels			1,311	2,000	1
					Ĭ
Total		-			÷
			144	100	1
Light mine layers—					11
Light mine layers— Mahan			99		н
Light mine layers— Mahan Murray.	********		99	95	ı
Light mine layers— Mahan Murray Maury.			99	95 85	
Light mine layers— Mahan Murray Maury Israel			99 99	95 85 99	
Light miue layers— Mahan Murray Maury.			99	95 85	

¹ Connecticut to be scrapped if treaty is ratified.
¹ Pueblo is now receiving ship at New York and will be assigned as flagship, European Squadi relief of Utah. Pueblo in 1922 has 470 extra men as receiving ship.
¹ Seattle will be commissioned as flagship, train Pacific, if Connecticut is placed out of commission to the property of

vessels to be in commission after June 30, 1922—Tabulated in accordance with fication of annual report of the Paymaster General of the Navy for the fiscal year—Statement 4—Continued.

	19	016	19)22	Proposed
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.	Proposed 1923 al- lowance,
rs—Continued.					
rs—Continued. mine layers—Continued.	-/	description of	90	105	00
nthony	**********		99	115	96
art	*********	*********	99 99 99	105 115 92	96 96 96
Total				991	990
					_
les:		Janes Line	34	35	ALCO AND A
		***********	34	37	
			34 34	37 34	
	*******		34 34 34 34 34 34 34 34 34 34 34 34 34	40 40	
		*********	34	40	
			34	39 38 38	
			34	38	
	********		34	- 00	*******
			24		
			34		
			34	***********	
			34	36	
			34	36	
			34	36 36	
			34	37	
			34		*******
	1100111111		34	34	
			34	********	
	********		34 34	38	
			34	*******	*******
			34	*******	
			34	********	********
			34	********	11
***************************************			34	********	11
	********	********	34 34 34 34 34 34 34	*******	1
	********	*********	34	*******	9
			34	6	11
	**********		34		11
			34 34		1,29
***************************************			34		1 -,==
·			34		ld.
***************************************			34		11
***************************************			34		11
***************************************			34		31
			34		1
			34	********	J
			42	37	1
			42		12
	********		42	37	1
			27	27	11
********************************	********		27	20	H
************************************			27	96	II.
	********		27	20	11
	********	********	27	24	11
			27	22	11
			27	24	11
	100000000		27	25	11-
			27	59	
			27	24	72
	********		27	26	12
			27	26	
			27	25	11
			27	22	l l
		·····	27	37 27 28 29 26 24 22 24 25 59 24 26 26 26 26 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	
	22.02.00	********	27	29	H
***************************************		*******	34 34 34 34 42 42 42 27 27 27 27 27 27 27 27 27 27 27 27 27	15	11
			27	21 10 29	
			97	10	11

List of vessels to be in commission after June 30, 1922—Tabulated in accordanc classification of annual report of the Paymaster General of the Navy for the fisc 1921—Statement 4—Continued.

	1	916	19	922
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.
ubmarines—Continued.				
First line, full commission—	į	:	i	i l
0-1		.'	. 27	26
O-2			.[27	26
0-3			. 27	26
0-4		.'	. 27	26
O-5			. 27	26
О-6			. 27	27
0-7		.'	27	27
0-8			. 27	27
O-9		. i	27	27
O-10			27	27
0-11			27	26
O-12		!	27	23
O-13			27	22
0-14			27	25
O-15			27	26
O-16			27	27
R-1			27	20
R-2			27	28
R-3.			27	20
R-4.			หท ท ท ท ท ท ท ท ท ท ท ท ท ท ท ท ท ท ท	26 26 26 27 27 27 27 27 27 27 28 22 25 26 27 27 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29
R-5			27	25
Second line in commission, two-thirds complement		ļ		ı
H-2	22	20	15	27 26 29 27 29 26 26 26
H-3	22	19	15	26
H-4			[15]	29
H-5			15 15 15	27
Н-6			15	20
H-7			15	26]
H-8			15	26
Н-9			15	26
Total	66			236
·			15	21
K-1	24	24		
K-1	24 24	24 23	15	21
K-2	24 24 24	24 23 24	15	21
K-2 K-3	24 24 24 24	24 23 24 25	15 15	21 21 21
K-2. K-3. K-4.	24 24 24 24 24	24 23 24 25 27	15 15 15	21 21 21 25
K-2 K-3 K-4 K-5	24 24 24 24 24 24	24 23 24 25 22	15 15 15	21 21 21 25 23
K-2 K-3 K-4 K-5 K-6	24 24 24 24 24 24 24	24 23 24 25 22 22	15 15 15 15 15	21 21 21 25 23
K-2 K-3 K-4 K-5 K-6	24 24 24 24 24 24 24 24	24 23 24 25 22 22 24 24	15 15 15 15 15 15	21 21 21 25 23 23
K-2. K-3. K-4. K-5. K-6. K-7. K-8.	24 24 24 24 24 24 24 24	24 23 24 25 22 22 24 24 24	15 15 15 15 15	21 21 21 22 25 23 23 22
K-2 K-3 K-4 K-5 K-6 K-7 K-8	24 24 24 24 24 24 24 21 192	24 23 24 25 22 22 22 24 24	15 15 15 15 15 15 15	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total =	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 15 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2. = L-3. =	24 24 24 24 24 24 24 21 192	24 23 24 25 22 22 24 24 24	15 15 15 15 15 15 15 15 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 17 17 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 = L-3.	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 17 17 17 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total =	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 15 17 17 17 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5 L-6 L-7 L-8	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 15 17 17 17 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-9	24 24 24 24 24 24 24 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17	177 9 3 25 29 25 24 15
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5 L-6 L-7 L-8	24 24 24 24 24 24 24 21 192		15 15 15 15 15 15 15 15 17 17 17 17	177
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5 L-6 L-7 L-8 L-9	24 24 24 24 24 24 24 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17	177 9 3 25 29 25 24 15
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total = Total = Total = Total = Total = Total = Total = Total = Total = Total = Total = Total = Total = Total = Total	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17	177 9 3 25 29 25 24 15 2
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total = N-1	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17	177 9 3 25 29 25 24 15 2
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-111 = Total = R	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 25 24 15 2
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total = N-1	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17	177 9 3 25 29 25 24 15 2
K-2. K-3. K-4. R-5. K-6. K-7. K-8. Total = L-2. L-3. L-5. L-6. L-7. L-8. L-9. L-11. Total = S-2.	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 22 24 15 2 2 15 20 15
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total S-1 N-2 N-3 Total	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 225 24 15 2 15 20 15 182
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total S-2 N-3 Total Grand total	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 22 24 15 2 2 15 20 15
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total. L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total. S-1 N-2 N-3 Total. Grand total. Grand total.	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 23 24 15 20 15 20 15 20 15 20 15 20 15
K-2 K-3 K-4 K-5 K-6 K-7 K-8 Total = L-2 L-3 L-5 L-6 L-7 L-8 L-9 L-11 Total = N-1 N-2 N-3 Total	24 24 24 24 24 24 21 192 22 22 22 22 22 22 22 22 22 22 22 22 2		15 15 15 15 15 15 15 15 17 17 17 17 17 17 17 17 17 17 17	177 9 3 25 29 225 24 15 2 15 20 15 182

 ⁵ H-1 in commission 1916; on board, 19; complement, 22.
 6 Nos. 338 and 96 at Constantinople to be sold. Manned by men from Scorpion or destroyers.
 7 The 8 subchasers listed as training midshipmen are in a noncommission status and are used intentity for drill purposes.

essels to be in commission after June 30, 1922—Tabulated in accordance with ation of annual report of the Paymaster General of the Navy for the fiscal year Statement 4—Continued.

	19	16	15	922	Proposes
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.	Propose 1923 al- lowance
chasers—Continued. training reserves) (training midshipmen)			3 ** 4 3	2 4 2	
training reserves) (training midshipmen) (training reserves) (training reserves) (training reserves)			3 ** 8	2 3 2 7	
(personnel supplied from air station)			** 12	11	·····i
			**.11	10	1
(training reserves)			** 17	5 9	1
	••••••••		** 17 4	8 4	1
(training midshipmen)			17	16	1
(training reserves)			** 7	10	
			** 7 ** 7 ** 7 ** 7	7	
			** 7 ** 7	3	
			** 7	7	
(training midshipmen) (training midshipmen) (training reserves)			**4	4 4 3	
(training reserves)			** 9	10	
(training rasaryas)			⇒ 7 3 3	3 3	
(training reserves) (training reserves) (training reserves) (training reserves)			3 3 3	3 3 3	14 1
(training reserves)			** 4	3	
			** 17 ** 17	18 19	
	********		11	264	200
		********	*********	204	26
ng reserves)			10	45 38	1
ng reserves)			10	42	
ng reserves)			(**)	12	(*)
ing reserves)			10 10	10 10	
submarine base)			(**)	10	(8)
submarine base)			(**)	10	(8)
and the second s			10 36 10	28 10	
			10	9	
submarine base)			(++)		(*)
submarine base)ing reserves)			10 10	13 13	
ng reserves)			10 10 10	10 10	1
ng reserves) anel supplied from air station)		********	(408)		
ing reserves)			10	10 10	
ng reserves)		********	10 10 10	14 10 10	3
ng reserves)		2555204070	101	137	

List of vessels to be in commission after June 30, 1922—Tabulated in accordance classification of annual report of the Paymaster General of the Navy for the fisca 1921—Statement 4—Continued.

	1	1916	1	922	l
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.	1
Eagles—Continued.					Ī
54 (training recerves)	.		. 10	10	l
55 (training reserves)	.	.	. 10	10	l
55 (training reserves) 56 (training reserves) 57 (training reserves)		.	. 10	6	ł
5/ (training reserves)			.i 10	12 27	ı
58 (training reserves)			. 10	10	l
					L
Total	· <u></u>			419	Ļ
enders to torpedo boats:		i	i		
Beaver (submarines)			292	300	
Bushnell (submarines)	145 129	160 170	195 134	179	
Fulton (submarines). Hannibal (surveying ship).	143	134	146	131 137	
Melville	315	314	449	232	
Prometheus (repair ship)	230	176	430	370	
Rainbow (submarines)	217	81	297	322	
Rainbow (submarines)	}		i i	- 1	
General's report—	1	i		_ i	
Altair 9 Denebola 9			269 250	74	
Rigel 9.			398	242 41	
Canopus (submarines) 9			456	486	
					_
Total				2, 578	_
unboats: Paducah	131	ł		- 1	
El Cano	93	80	93	92.	•
Essex (training reserves)	6		18	83 ; 17 •	
El Cano Essex (training reserves)	12		15	12	
Monocacy Palos	45	48	46	48	
Palos	45	46	46	55 30	
Pampanga	29	31	30	30 !	
Quirôs Sacramento	54	53	55	47	
Villalobos	135	147	152	176	
Wilmette (training reserves).	54	55	55 25	56	
Wilmington	169	135	162	23 151	
Wolverine (training reserves)	82	100	8	6	
Yantic (training reserves)	l		15	15	
Yantic (training reserves). Additional, not shown on Paymaster General's	1		1	1	
report: Asheville			148	150	
Total			• • • • • • • • • • • • • • • • • • • •	869	
ransports:	l .				_
Hancock (receiving ship)	215		130	(**)	
Henderson	201		397	01	
General report: Chaumont			214	• • •	
•			219	240	_
Total				641	_
apply ships:	į		İ		
Additional supply ships not shown in Bo-			189	203	
Additional supply ships, not shown in Pay- master General's Report: Arctic			188		
			100	220	_
Total				423	_
ospital ships:	l i		- 1		
Mercy			348	208	
Relief			361	411	
Total				679	_
ael ships:	<u> </u>				_
Arethusa			72	70	
Brazos Cuyama			120	112	
			120	114	

⁹ Figures for complements of Altair, Denebola, and Rigel were tentative, and did not include repair Canopus was shown as a shore-based tender under 42, is now a submarine tender.

List of vessels to be in commission after June 30, 1922—Tabulated in accordance with classification of annual report of the Paymaster General of the Navy for the fiscal year 1921—Statement 4—Continued.

	1	916	1	922	Proposed
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.	1923 al- lowance.
el ships—Continued.					
leeon			164	152	16
Kanawha			120	101	12
Langley (airplane carrier)	157	150	339 164	216 141	33 16
Kanawha Langley (airplane carrier) Nereus Orion	•••••		164	209	16
Patoka			91	99	19
Proteus			164	153	16
Ramapo			91	119	9
Sapelo	•••••	·	91 91	16 101	9
Trinity Additional fuel ships, not shown on Paymaster General's Report—	•••••		91	101	9
Neches			101	118	10
Pecos			120	107	12
Total				1,817	2,01
	-				
e sweepers (special duty): Sandpiper (air tender, Atlantic)		1	40		
Sandpiper (air tender, Atlantic)	• • • • • • • • • •	1	45 45	69 63	4
Gannet (air tender, Pacific)	• • • • • • • • • • • • • • • • • • •		45	55	4
Falcon (submarine salvage)	• • • • • • • • • •		54	59	54
Cormorant (Bureau of Ordnance)			54	63	54
Teal (air tender, Atlantic) Gannet (air tender, Pacific) Falcon (submarine salvage) Cormorant (Bureau of Ordnance) Swallow (thirteenth naval district—Alaska compass calibration)			41	44	41
Total				353	281
į					
e force:				1	
Atlantic—					
Chewink	• • • • • • • • •	• • • • • • • • • •	54 54	46 44	54
Lark	• • • • • • • • • •		54	44	54 54
MallardPacific—			54	52	54
Penguin			54	51	54
Seagull			54	57	54
Whippoorwill			54	22	54
Tanager			54	52	54
Finch			54	68	54
			54	47	54
Total				483	540
towing:					
lantic—			[
BobolinkRobin			45	45	45
Vireo			45 45	48	45
-			70		45
<u>-</u>				142	135
Rail			45	46	45
Quail			45	68	45
Brant		l	45	49	45
Cardinal	•••••		45	48	45
Kingfisher			45	47	45
Fern			45 45	47	45 45
wing listed in ships' data book as shown			20	*'	, 10
- 12- on (listed under Turs (fleet) see Turs)	İ			ļ	
vense (listed under Tugs (fleet), see Tugs). vens (listed under Tugs (fleet), see Tugs). vens (listed under Tugs (district), see					
lendota (listed under Tugs (district), ree	1	İ	1		
Tugs). Indeunted (listed under Tugs (fleet), see					
A vega : TT					
Total				352	315

List of vessels to be in commission after June 30, 1922—Tabulated in accordance classification of annual report of the Paymaster General of the Navy for the fis 1921—Statement 4—Continued.

	19	916	1	922
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.
onverted yachts and patrol vessels.				
Advance (tug)	<u></u> .		** 8	
Hawk	38		- 6	7 12
Herreshoff No. 323.			** 12 83	94
	172	159	160	159
Mayflower Nokomia			66	8 6
l'orpoise (tug)	<u></u> -		** 23	
Scorpion.	. 80	j	132	138
Shady side (ferry). Delaware S. P. 4 77.			(++)	10
Sylph	28	79	` ′32	32
Vixen	74		72	76
m . 1	ļ	<u>-</u>		
Tota!	• • • • • • • • • •			592
otor patrol boats:				
Asp		[(**)	4
Clarinda (sixth naval district)		[(**)	8
Constance II (first naval district)	• • • • • • • • • • • • • • • • • • • •		(#)	
Privateer Zumbrota		i	(32)	8 5
igs:			()	
			30	49
Contocook (neet) Montcalm (fleet) Napa (fleet) Ontario (fleet)		'	39 39 54 34	37
Napa (fleet)			39	40
	49 27	51 31	34	36
Potomac (fleet). Somona (fleet). Tadousac (fleet). Algorma (fleet).	36	38	42	42
Somona (fleet)	49	51	54 39	54
Tadousac (fleet)			. 39	39
Algorma (fleet)			** 30	
Allegheny (fleet). Catawba (district) Cayuga (district)	•••••	· · · · · · · · · · · · · · · · · · ·	** 24 ** 13	
Cavuga (district)			** 8	
Chemung (fleet) Mendota (ex-Concord) (district)			** 2ŏ	
Mendota (ex-Concord) (district)		'	# 20	
Grampus Hercules (district)	8	• • • • • • • • • • • • • • • • • • • •	₩ 19 ₩ 8	•••••
Iuka (fleet)	°	••••••	≠ 30	
IWana (district)	8		** 8	
Iroquois (fleet) Kalmia (fleet)	34		** 20 ∣	
Kalmia (fleet)			# 30 # 39 # 30 # 30	
Keosanqua (fleet) Kewaydin (fleet)	•••••		77 39	
Koka (fleet) Lively (district) Mahopac (fleet) Massasoit (district) Modow (district)		······.	## 30	
Lively (district)			** 8	
Mahopac (fleet)			₩ 30	
Massasoit (district)	8		# 8	
Modoc (district) Mohave (fleet)	• • • • • • • • • • • • • • • • • • • •	••••••	++ 8 ++ 20	• • • • • • • • •
Mohawk (district)	8	•••••	## 8	
Narkeeta (district)	šl		# 8	••••••
Nausett (district)			₩ 8	
Navajo (fleet)			₩ 26	
Navigator (district).	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	₩ 12 ₩ 9	• • • • • • • • •
Nottaway (district)	45	••••••	** 30	• • • • • • • • • • • • • • • • • • • •
Patuxent (fleet)	46		** 30 ** 30	
Patuxent (fleet) Pawtucket (district)	8 1		₩ ğ	
Penacook (district)	8		# 9	
Pentucket (district)	8		≠ 8 ≠ 30	• • • • • • • • •
Pinola (fleet)	45		# 44	
Rocket (district)	8		₩ 8	•••••••
Saco (district)			* • ĕ	•••••••
Sagamore (fleet)			# 20 ¦	•••••
Sciota (fleet)	••••••		₩ 20 ₩ 9	• • • • • • • • • • • • • • • • • • • •
Sepago (district)	49	51	** 39 ** 30	• • • • • • • • • • • • • • • • • • • •
Sunnadin (neet)				
Tatnuck (fleet)			30 I	• • • • • • •
Tatnuck (fleet)	:::::		** 12	· · · · · · · · · · ·
Tatnuck (fleet)			→ 12 → 12 → 8	· · · · · · · · · · · · · · · · · · ·

List of ressels to be in commission after June 30, 1922—Tabulated in accordance with classification of annual report of the Paymaster General of the Navy for the fiscal year 1921—Statement 4—Continued.

	1	916	1	922	Propose
Vessels.	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. 1.	Propose 1923 al- lowance
Tugs—Continued.		- 			
Unch store No. 61	. .	1	. **8		
Harbor tug No. 67			** š		
Harbor tug No. 69 (lent to marines)	.				
Harbor tug No. 67. Harbor tug No. 69 (lent to marines). Harbor tug No. 71. Harbor tug No. 72. Harbor tug No. 73.	-;		** 8		
Harbor tug No. 72				•••••	
Harbor tug No. 73. Harbor tug No. 81. Motor tug No. 86. Motor tug No. 90. Motor tug No. 93. Motor tug No. 92. Violent tug No. 98. Umprijus (fleet). Unadilla (district).			و 🞞 و		
Motor tug No. 54	.1		# 4		
Voter tug No. 90			** 7		
Motor tug No. 93			** 2		
Motor tug No. 92			** 8		
Motor tug No. 98.			** 4		
Umpqua (fleet)	.	.'	** 30		
Unadilla (district)	.'	. .	** 11		
Vigilant (district)	.1			•••••	
Vigilant (district). Wahneta (district). Wicomico (ex-Choctow) (district) Wompatuck (district).	·		** 8	•••••	• • • • • • • •
Wicomico (ex-Choctow) (district)	8		** 8	•••••	
Wompatuck (district)	!	· • • • • • • • • • • • • • • • • • • •	** 18		• • • • • • • •
Additional tugs not carried in Paymaster Gen-	ļ		İ		
eral's report—	i		** 24	l l	
Bay Spring (fleet). Challenge (fleet).			** 14	••••••	• • • • • • • • • •
			** 30		• • • • • • • • •
Undaunted (fleet)			** 22		• • • • • • • • •
Undaunted (fleet) Advance (district). Sotoyoma (district).			** Q		
Sotovoma (district)			** 8		
Total		<u></u>		365	34
secial type: Aroostook (mine layer) Baltimore (mine layer) Balck Hawk (destroyer tender) Shawmut (mine layer) Vestal (repair ship) Wright (aircraft tender)	320 230	313 285	250 334 440 369 430 286	240 301 349 314 357 390	25 33- 44 36: 43: 29:
Total					2, 10
I Committee of the comm					
j -				1, 951	
aval Overseas Transportation Service vessel:			222	211	222
aval Overseas Transportation Service vessel: Argonne			222		
aval Overseas Transportation Service vessel: Argonne			(**)		
aval Overseas Transportation Service vessel: Argonne			(**) (**)	211	
aval Overseas Transportation Service vessel: Argonne		78	(**) (**) (**)	211 17 5 75	
aval Overseas Transportation Service vessel: Argonne		35	(**) (**)	211 17 5 75 109	
aval Overseas Transportation Service vessel: Argonne		35 91	(#) (#) (#) (#) (#)	211 17 5 75 109 91	
aval Overseas Transportation Service vessel: Argonne asserviceable for war purposes: Old Constellation Old Constitution		35	(**) (**) (**)	211 17 5 75 109	
aval Overseas Transportation Service vessel: Argonne		35 91	(#) (#) (#) (#) (#)	211 17 5 75 109 91	
aval Overseas Transportation Service vessel: Argonne		35 91	(##) (##) (##) (##) (##) (##)	211 17 .5 .75 .109 .91 .47 .	
aval Overseas Transportation Service vessel: Argonne	75	35 91	(408) (409) (409) (409) (409) (409) (409)	211 17 5 75 109 91 47 342	22:
aval Overseas Transportation Service vessel: Argonne		35 91	(##) (##) (##) (##) (##) (##)	211 17 5 75 109 91 47 342	22:
aval Overseas Transportation Service vessel: Argonne	75	35 91	(408) (409) (409) (409) (409) (409) (409)	211 17 5 75 109 91 47 342	222 81 44 125
aval Overseas Transportation Service vessel: Argonne	75	35 91	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 109 91 47 342 44 44	81 44 125
aval Overseas Transportation Service vessel: Argonne	75	35 91	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44	22: 81 44 125
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44 44 71	81 44 125 88 72
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 109 91 47 342 44 44 44 112 71 (19)	22: 81 44 125 88 72 (10)
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 109 91 47 342 44 44 112 71 (10) 651	22: 881 44 125 887 72 (10)
aval Overseas Transportation Service vessel: Argonne. nserviceable for war purposes: Old Constellation. Old Constitution. Hartford (receiving ship). Philadelphia (receiving ship). Southery (receiving ship). Total. urean of Fisheries: Albatross. Fish Hawk. Total. t-foreign: Bath. Beaufort. Black Hawk. Bridgsport. Camden. Kittery.	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 109 91 47 342 44 44 44 651 378	88 44 122 (10) . 347
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 109 91 47 342 44 44 112 71 (10) 651	222 81 44 125 88 72 (10) 520 347 84
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44 112 71 (18) 651 378 113 138 111	22: 881 444 125 (10) 520 347 841 113
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44 44 112 71 (10) 651 378 113 113 113 113 235	88 44 125 88 72 (10) 520 347 84 113
aval Overseas Transportation Service vessel: Argonne	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44 112 71 (18) 651 378 113 138 111	22: 881 444 125 (10) 520 347 841 113
aval Overseas Transportation Service vessel: Argonne Argonne Argonne Argonne Old Constellation Old Constitution Hartford (receiving ship) Philadelphia (receiving ship) Reina Mercedes (receiving ship) Total ureau of Fisheries: Albatross Fish Hawk Total **Foreign: Bath Beanfort Black Hawk Bridgeport Canadean Kittery Nowport News Punsacola (will be station ship Guam) Rannakannock	75 44	35 91 55	(**) (**) (**) (**) (**) (**) (**) (**)	211 17 5 75 75 109 91 47 342 44 44 44 112 71 (10) 651 378 113 113 113 113 235	88 44 125 88 72 (10) 520 347 84 113

List of vessels to be in commission after June 30, 1922—Tabulated in accordance with classification of annual report of the Paymaster General of the Navy for the fiscal year 1921-Statement 4-Continued.

Vessels.	1916		1922		: Proposal
	Comple- ment.	On board July 1.	Comple- ment.	On board Feb. I.	
liscellaneous:					
Nitro (ammunition ship)			177	217	17
Pyro (ammunition ship)			177 91	214 81	17
Gold Star.			91	ar i	
Sirius			9i	41	
<u>V</u> ega			91	81.	
RegulusAntares			91 91	·····	
Procvon			91	26 17	
General Alava			54	i ii	i
Total				706	1,65
strict craft, miscellaneous, not listed in statement					
4 of the Paymaster General's report:	i	Ì		1	
Dart				↔ 10	
Leslie				+ 11	
CastroPinafore				= = 1	
Ambulance boat No. 1	· · · · · · · · · · · · · · · · · · ·				
Ambulance boat No. 2					
Transfer				₩7	
Cyane				J	
FaithfulNave				(*)	
Narragansett					
- Matal	!				
Total		[•••••• <u> </u>		42	******

SUMMARY OF PROPOSED ALLOWANCE OF MEN AFLOAT ON VESSELS LISTED ABOVE.

Flag complement
Fleet aviation.

Mr. Kelley. That list of 18 ships constitutes the treaty allowance on the basis of 5 to 3 as to Japan, does it not? Admiral Coontz. Yes, sir.

Mr. Kelley. Work on the other ships on this list designated sa battleships, except the West Virginia and the Colorado, under the terms of the treaty, is to be discontinued?

Admiral COONTZ. Except the Colorado and one other to be selected,

either the Washington or the West Virginia.

Mr. Kelley. Then, so far as personnel is concerned, for the coming year it would not matter which it was, the Washington or the West Virginia?

Admiral Coontz. No, sir.

Mr. Kelley. So that we can disregard all the other battleships, so far as personnel is concerned?

Admiral Coontz. In the first line; yes, sir.

SECOND LINE BATTLESHIPS THAT CAN BE KEPT IN COMMISSION.

Mr. Kelley. And in the second line, too. The second line is to be scrapped, is it not?

airal Coontz. I would like to run down these figures and to tention to some of these ships. The Illinois, under the treaty, saved. It is now the training ship for the naval militia of the of New York, and is in commission in New York City. S. Ohio, the experimental ship, is now in commission and will ced out of commission and scrapped. The U. S. S. Connecticut the flagship of the train and base force of the Pacific Fleet. l be relieved, if the treaty is ratified, and scrapped under the

Kelley. There is no special need of detailing them as long as

re out so far as personnel goes.

niral Coontz. Yes, sir; because they must be replaced with hing. Every one doing important duty must be replaced.

Kelley. They will not have to be replaced, so far as battle-

are concerned?

niral Coontz. No, sir.

Kelley. Then, let us stick to the battleships. If they are to laced by some other kinds of ships that we will come to later, will take them up then. The 18 battleships are all that we o consider in this connection.

niral COONTZ. Except as to the note regarding the Illinois.

regon does not appear here.

Kelley. Is the *Illinois* assigned to the New York militia?

niral Coontz. Yes, sir.

Kelley. Do they pay all of the expenses?

niral Coontz. No, sir.

Kelley. We bear all of the expense of it?

niral Coontz. We bear the absolutely necessary expense of g the vessel in fit condition for the duty assigned. Kelley. How long have they had the *Illinois?*

airal Coontz. Since October 25, 1921. She replaced the Grante, which burned up.

Kelley. Before that she was out of commission?

niral Coontz. She was out of commission.

KELLEY. We did not spend any money on her to speak of in so I imagine she was out of commission.

niral COONTZ. Yes, sir.

Kelley. You understand that what we want is a table showing mplement of each ship for 1922 and for 1916 in parallel col-

You might take some particular date in 1916, say, July 1. nt the statement to show the actual complement on the ships we dates. I suppose, of course, that varies widely. iral Coontz. That would not affect the complements.

Kelley. What I want is a statement showing the actual num-

ried on the ships in 1916.

etary Denby. And not the authorized complement. not vary very much, except as a ship might lose men here ere.

Kelley. The Secretary of the Navy might reduce the comple-

t any time by 100 or 200 if he saw fit.

tary DENBY. When you figure the number of men on a ship s at any one date, it would probably be equivalent to the - at any other date.

Mr. Kelley. I think the admiral knows what I want. I want a fairly accurate comparison of the number of men that you are asking for the coming year with the number of men that you actually he on those various ships at some particular date, say, July 1, 1916, and I think that, perhaps, it would be well to have a third column giving the actual number of men on each ship as of some particular data this year.

Secretary DENBY. We could take the same date in each year.

Mr. Kelley. Make it a fair comparison with the number of ma carried in 1916.

Colonel Roosevelt. We could take the 1st of July, 1916, and the 1st of July, 1921.

ARMORED CRUISERS.

NUMBER TO BE KEPT IN COMMISSION.

Mr. Kelley. The next is armored cruisers: Do you intend to keep

the Frederick in commission next year?

Admiral Coontz. I would like to state that this way: The Hung is now the flagship of the Asiatic station, and she will have to relieved this calendar year, because she will need repairs and wi have to come home. Therefore, one of the others would have to to relieve her, but that would be an exchange. The Pueblo, the relieve her, but that would be an exchange. receiving ship at New York, has a small number of men on board The Seattle has been chosen to relieve the Connecticut and will be placed in commission after the treaty is ratified. The Utah w have to be relieved in Europe, so that she may come home and ich the battle fleet. That would mean three in commission, and one a receiving ship. We have not fixed on which three will relieve the others but will pick the ones which will be most economical. The Memphis was wrecked several years ago.

Colonel ROOSEVELT. Could you not state it this way: There at 11 in question, and out of the 11 7 will be put out of commission 1 used as a receiving ship in New York, and 3 will be in service!

Admiral Coontz. Yes, sir. Two of those vessels have been sun however, already—the Memphis and San Diego.

Colonel Roosevelt. They are not in the list of 11 that I speak of

Admiral Coontz. They are in this list I have here.

Mr. Kelley. There are only 10 in this list.

Admiral Coontz. Yes, sir; two of them have been sunk.

Mr. Kelley. Which two?

Admiral COONTZ. The Memphis and the San Diego. The Memp went down at San Domingo City, and the San Diego was blown by a mine during the war.

Mr. Kelley. Out of the other eight, you intend to keep three!

commission?

Admiral Coontz. Yes, sir; three in commission and one receiving ship.

DUTIES OF FLAGSHIP OF TRAIN.

Mr. Kelley. What are the duties of the Connecticut now? Admiral Coontz. The duties of the Connecticut are those of f ship of the Pacific train and of the base force in the Pacific.

Mr. Kelley. Just explain that a little more, in an untechnical way. Admiral Coontz. I have a statement of that here.

Mr. Kelley. Let me ask you this, and perhaps we can make it norter: If I have the right idea the flagship of a train is the ship

nat carries the office end of the outfit?

Admiral Coontz. Yes, sir. I can give it in a few words. It is one I the necessary ships in connection with the train, and the service erformed by it corresponds with the service performed by the Quarermaster Corps of the Army.

Mr. Kelley. That is far enough. I think I understand it.

Colonel ROOSEVELT. The flagship is the office of the train, and the

thers are supply ships.

Mr. Kelley. Is there not some ship in the train that would be arge enough to accommodate the officers, or to handle the executive ork, without having the Connecticut along?

Admiral Coontz. I do not believe it would pay to do so, because te others would be moving. They are cargo ships, or vessels of that

naracter, that have specific duties.

Mr. Kelley. I suppose it might happen that the headquarters ight find itself separated from the rest of the train, if you did not

we a ship especially for headquarters?

Secretary Denby. When I was with the fleet at Guantanamo Bay st spring I observed that situation, and I know that you could not e those ships for carrying that personnel. Those ships were carryg supplies, and some of them were repair ships, or floating machine They are given up entirely to the purposes for which they e intended, and no staff of any kind could be carried on them unless e ships were especially designed for that purpose.

COST OF OPERATING STEAMSHIP "FREDERICK" FOR 1921.

Mr. Kelley. The Frederick cost last year \$1,213,957.60. Admiral Coonty. Yes, sir. I would like to insert a statement o the record showing why the Frederick did cost that much money.

OTE.—The U. S. S. Frederick was employed from July 1, 1920, to June 30, 1921.

uly 1 to 17, 1920, at the navy yard, Philadelphia; July 17 to October 13, 1920, ving of American athletes to Oympic games in Europe: October 13 to December 920, at Philadelphia; December 1 to 13, 1920, en route Canal Zone; January 16, 1. relieved Glacier at flagship of train, Pacific, at Canal Zone; January 21 to Febry 23, 1921, cruise to Valparaiso and return; February 23 to March 14, 1921, en te Balboa to Bremerton; March 14 to April 25, 1921, at Bremerton; April 25 to e 30. 1921, visit of Pacific coast ports.

should be noted that from July 17 to October 13, 1920, the Frederick was emyed carrying the American naval athletes to Europe to participate in the Olympic les at Brussels. On this cruise she was manned to a large extent by naval reservists ler training, who volunteered for this training cruise. She carried personnel in

ler training, who volunteered for this training cruise. She carried personnel in eas of complement on this cruise which would account for heavy expenditure ler "Pay of the Navy." t should also be noted that the employment of the Frederick during the fiscal year I involved long trips at sea, which accounts for heavy expenditures under "Fuel transportation." The heavy expenditures under "Construction and repair" "Engineering" can be accounted for by the necessary repairs to fit the vessel for mary naval service after being used for transporting troops returning from Europe the armitties and repairs necessary after strengung war and transport received.

r the armistice and repairs necessary after strenuous war and transport service, n repairs could not be made, because it was necessary to keep the vessels running

only sufficient repairs to keep them going.

GUN POWER AND MILITARY VALUE OF ARMORED CRUISERS.

Mr. Kelley. You propose to have 3 out of 10 of these vessels in commission?

Admiral Coontz. There will be four including the receiving

ship.

Mr. Kelley. Counting the receiving ship at New York, there would be four.

Admiral Coontz. Yes, sir.

Mr. Kelley. The armored cruisers came along in the last decade,

did they not?

Admiral Coontz. They were commissioned between 1905 and They are pretty good ships, so far as gun power is con-1908. cerned.

Mr. Kelley. They are still good ships?
Admiral Coontz. Yes, sir.
Secretary Densy. The last one was built in 1908, or was put in commission in 1908.

Mr. Kelley. So that these ships have some military value.

Admiral Coontz. Yes, sir.

Mr. Kelley. What is their gun power?

Admiral Coontz. They carry four 8-inch guns and fourteen 6-

inch guns.

Mr. Kelley. So you have here in service a flagship for your train, which is more or less a supply part of the fleet, but it would have a military strength also?

Admiral Coontz. Yes, sir.

Mr. Kelley. There are three to be put in commission?

Admiral Coontz. Yes, sir.

Mr. Kelley. How many of these ships has Japan? Colonel ROOSEVELT. Japan has five of that type.

Mr. Kelley. The armored battle cruiser will be an offset to some of our battleships, or that was the understanding.

Admiral Coontz. Yes, sir.

SHIPS STATIONED IN EUROPEAN WATERS.

Mr. Kelley. What was the duty of the other one? Was it to relieve the *Utah*?

Admiral Coontz. Yes, sir; to relieve the Utah.

Mr. Kelley. One of these others was to relieve the Utah, and I

want you to tell me why it will have to be relieved?

Admiral Coontz. The *Utah* is a battleship which we had expected to put in the second line before long, having planned to fill the fleet up with the new ones as they came on; but now, being restricted in that, the *Utah* is one of the eighteen which will be retained and we want to keep her with the battleship force for drille and maneuvers.

Mr. Kelley. Where is she now?

Admiral Coontz. At Algiers.

Mr. Kelley. Have you got to send another ship there?
Admiral Coontz. If we relieve the *Utah* we wish to send a ship in her place.

Mr. Kelley. What is the necessity for leaving a ship at Algiers

Admiral Coontz. The State Department has asked us to have one here for the present. This ship is the flagship of the European

Secretary Denby. The *Utah* is the only ship of any size in European raters. The only other vessels over there are the destroyers.

Admiral COONTZ. Just at the present time she happens to be at Agiers.

Mr. Kelley. Would not a smaller ship answer the purpose?

Admiral Coontz. A smaller ship would not answer the purpose ery well, for this reason, that a small ship that we have would not how up so well with the British, French, and other squadrons now n European waters. This vessel represents the United States, and we have only one. On the other hand, the British have a whole **quadron** there. We think that an armored cruiser would best show up our Nation and prestige, not alone along military lines, but for adding commerce. It is important that we have a fair-sized ship for that service.

Mr. Kelley. I rather agree with you that where the purpose of a hip is to reflect the dignity of the country, that it ought to be a pretty

good ship.

Admiral Coontz. The commander in chief in European waters has wen asked for one large vessel to stay at Constantinople all the ime, but we have refused it, and have steadily reduced that station. but I will take that up later.

Mr. Kelley. Of course, there is no military need of a ship at

Jgiers.

Admiral Coontz. No; she merely happens to be there to-day; he has been at various points; she has been in the North Sea, Baltic,

nd all European waters.

Secretary Denby. May I tell you why she is at Algiers? She is here at the request of the State Department. The French President having a review off Algiers, and the *Utah* being the only ship of any ze we have on the European station, she was sent to participate in hat review. She is also the flagship.

Mr. Kelley. It is an evidence of friendship and good will between

hese countries?

Secretary Denby. Yes.

Mr. Kelley. Which is one function of the Navy.

Secretary Denby. But she is not to be replaced by a battleship. Admiral Coontz. No; she is to be replaced by an armored ruiser.

Secretary Denby. But still a ship larger than a destroyer should

e on the European station.

Mr. Kelley. You do not think, Admiral, that the retention of one attleship, to continue in this service, would be a good thing?

Admiral COONTZ. No, sir.

Mr. KELLEY. You would have the ship in commission and all ready or work of any kind that it was necessary for her to do, and that eing the case what would be the difference whether it was over there rover here?

Admiral Coontz. There are two reasons. In case war came sudanly we would be shy one battleship, if we got into war in that irection; second, it is necessary nowadays to have the training with

the fleet, so that each battle unit can be fully ready to take its place in the battle line. As you know, battles are now very short lived. Colonel Roosevelt. May I interpolate—

Mr. Kelley (interposing). I think it would be a little better if we should go ahead with one witness and not have interpolations, because it mixes us up, but you may make whatever statement you desire.

Colonel ROOSEVELT. You said she would be there ready for anything, but the trouble is that she would not be ready for anything, because, in order to have ships ready for anything, they should be concentrated with their fighting units. We only have 18 left, under the treaty, and if we are going to have our 18 where they are ready for anything, they have got to be together.

Mr. Kelley. You have not got them together, anyhow; you have

half of them in the Pacific.

Colonel ROOSEVELT. But they are together in units. Mr. Kelley. That is, some of them are together. Colonel ROOSEVELT. The complete units are together.

CRUISERS, FIRST CLASS.

Mr. Kelley. I can see some force in the suggestion. Now, the cruisers of the first class. Which ones are we going to have next

year?

Admiral Coontz. We are going to have of those on that list the Charleston and the Rochester, the Charleston being the flagship of the destroyer force in the Pacific, and the Rochester having the same position in the Atlantic.

Mr. Kelley. How many destroyers are attached to the Charleston

if I may speak that way, Admiral?

Admiral Coontz. Is the number 100? Captain Kalbfus. About 108 now, sir.

Mr. Kelley. How many are attached to the Rochester?

Captain Kalbfus. The 108 includes 18 in China, which should be taken out.

Admiral Coontz. We will take them out; that would be 90.

many on this side with the Rochester?

Captain Kalbrus. One hundred and twenty-two with Rochester at Charleston, plus the active squadron of 19 with the Atlantic Fleet in all 141.

Mr. Kelley. They are large ships, and in 1921 the *Charleston* con \$1,112,110 and the Rochester \$1,154,872. Would not a smaller ves

answer your purposes?

Admiral Coonty. A smaller vessel would answer those purposes it had the proper characteristics, but until we get light cruisers 33 or 34 knots we must do the best we can.

Mr. Kelley. Do you regard these as good military ships? Admiral Coontz. Yes, sir; they are still fighting ships.

Mr. Kelley. What is their gun power?

Admiral Coonty. The Charleston has twelve 6-inch 50-caliber gun besides various secondary guns, antiaircraft guns, and saluting gun the Rochester has four 8-inch 45-caliber guns, eight 5-inch 50-calib guns, and various antiaircraft guns and saluting batteries.

Mr. Kelley. Was the Rochester rebuilt?

Admiral Coontz. The Rochester is the old New York. During ent years her gunnery installation was completely overhauled and ought up to date.

Mr. Kelley. So while she was first put into commission in 1893,

has been fixed up since then?

Admiral Coontz. Yes, sir.

Mr. Kelley. And she has been made quite a modern ship?

Admiral Coontz. I would not call her an extra modern ship, but will do until we can do better.

Mr. Kelley. And those other three you will put out of commis-

n entirely, or have they already gone?

Admiral Coontz. The old Milwaukee was sunk some years ago; St. Louis is out of commission and possibly will be sold; the oklyn has already been sold.

CRUISERS, SECOND CLASS.

[r. Kelley. Now the cruisers of the second class.

dmiral Coontz. Of the cruisers of the second class the Columbia Minneapolis have been sold; the Chicago is the station ship at nolulu; she is no longer of military value and is now immobile lieve her propellers have been removed; the Olympia is the flagof the Atlantic train; she is to be placed out of commission n the fleet comes north in May, and we expect the State of Washon to take some action regarding her preservation as a relic. course, as you know, she was the flagship of Admiral Dewey at Battle of Manila Bay: the Omaha and Milwaukee are in process uilding and will be completed within a few months, when they go into commission. Those two and the Richmond will be the of the new scout cruisers to be completed.

Ir. Kelley. Those two are entirely new?

dmiral Coontz. Yes, sir.

Ir. Kelley. And they are the only ones you intend to have in t group?

dmiral Coontz. No, sir; also the Richmond.

Ir. Kelley. Have you another new one? Admiral Coontz. Yes, sir; the Richmond is about complete.

Ir. Kelley. Then there are three new cruisers?

dmiral Coontz. Yes, sir.

Ir. KELLEY. And all the others go out?

dmiral Coontz. Yes, sir.

Ir. KELLEY. Now, cruisers of the third class. ecretary DENBY. May I make a correction?

Ir. KELLEY. Yes.

ecretary Denby. Not all of those cruisers go out because, as has 1 stated, the Chicago is being used as a station ship but with her mellers off, and I presume she will be carried on the navy list.

dmiral COONTZ. But Admiral Washington would call her on the r list. Of the cruisers of the third class-

F. Kelley (interposing). The Columbia is sold, you said?

dmiral Coontz. Yes, sir; and the Minneapolis is sold.

r. Kelley. The Olympia will be turned over to the State of hington under proper arrangements?

Admiral Coontz. We hope to do that. Mr. Kelley. And the other three are new? Admiral Coontz. Yes, sir.

CRUISERS, THIRD CLASS.

(See p. 241.)

Mr. Kelley. Now, cruisers of the third class.

Admiral COONTZ. Of the third class the Albany is on duty in Chir she is very old and we expect to relieve her with the Sacrame some time within the next six months.

Mr. Kelley. Where do you find the Sacramento on the list?
Admiral Coontz. We have not gotten to the Sacramento yet; it further down the list. The next is the Anniston; she was s

November 14, 1919.

Mr. Kelley. Is the Sacramento one of your new ones?

Admiral Coontz. Yes, sir; comparatively new; she was comple in 1914.

Mr. Kelley. You intend to keep the Albany in commission w

you get a new one to take her place?

Admiral Coontz. Yes, sir; until the Sacramento can get out the Mr. Kelley. So the Albany would probably require as many is the new one, and you would simply be exchanging crews?

as the new one, and you would simply be exchanging crews?

Admiral COONTZ. No; the new one will require fewer men, bu will be necessary to have a crew take her out and make the state of the Sacramento is a gunboat about 6 years old, and we got the Alb in the Spanish War.

Mr. Kelley. Then the Albany can go out when a gunboat to

her place?

Admiral COONTZ. Yes, sir; but it will take at least six mor

before that change is made.

Mr. Kelley. The Anniston is evidently out of commission alreaddmiral Coontz. The Anniston was sold November 14, 1919.

Mr. Kelley. Is that one of the new scout cruisers?

Admiral Coontz. No, sir.

Captain DAY. The Anniston is the old cruiser Montgomery, I th Mr. Kelley. You do not intend to keep her in commission, wlever she is?

Admiral Coontz. No, sir.

SPECIAL SERVICE SQUADRON.

Mr. Kelley. What about the Birmingham?

Admiral Coontz. She is the flagship of the special service squad and we expect to keep her in commission for an indefinite perior

Mr. Kelley. What is the special service squadron?

Admiral Coontz. The special service squadron is the squad that we keep in South American and Central American waters the promotion of friendly relations with those Republics. It is coposed at present of five vessels, of which two are now on the viside of Nicaragua, one was sent to Honduras within the last weel the request of the State Department, one is at Colon, and the other think, is at Key West. Those vessels, except the flagship, are of

acoma type; part of them are out of commission, and we must keep ve in commission.

Mr. Kelley. What is the displacement of the Birmingham?

Admiral Coontz. The Birmingham has a displacement of 3,750 I would state at this point that the two ships we are sending china are being taken from the special service squadron, that is, be special service squadron is being reduced; there will be a net eduction of two vessels.

CRUISERS, THIRD CLASS.

(See p. 240.)

Mr. Kelley. You will notice that this list is quite an expensive

Admiral Coontz. Yes, sir.

Mr. Kelley. In comparison with its military value in case of **tual** hostilities?

Admiral COONTZ. Yes, sir.

Mr. Kelley. How many do you want to keep of this list altogether? Admiral Coontz. We wish to keep five out of the total number, tting rid of the Albany and New Orleans, as I said, when they are lieved. The five to be kept running are the Birmingham, the eveland, the Denver, the Galveston, and the Tacoma; they are in The others are out of commission at the present time d some of them have been sold, namely, the Cincinnati, the Marble-ad, the Anniston, and the Raleigh. That leaves a very few like e Chester, the Chattanooga, and the Des Moines to be retained out commission for emergencies. In other words, of that total number thin six months there will only be five left in commission.

Mr. Kelley. So you are asking the personnel for five in full comssion? Will it take some men on the others, or will you just lay

em up?

Admiral COONTZ. It will take no men at all after we get the Albany d the New Orleans out of commission.

Mr. French. What about the New Orleans?

Admiral Coontz. The New Orleans is to be relieved by the Ashe-Le, a gunboat, and the New Orleans will be brought home, decomssioned and sold.

Mr. Kelley. Did you say these two would go to Asiatic waters? Admiral Coontz. No; I said these two in Asiatic waters would be

ieved by two we will find listed further down.

Mr. Kelley. I think if the representatives of the Bureau of Navition are now here we can carry this right along together. Captain **lliams**, we want the number of men that are required for each of

battleships for next year, beginning with the Delaware?
Captain WILLIAMS. May I submit this paper, prepared for the Naval Committee? It does not give the information exactly

Idmiral Coontz. Captain, is that on the basis of the Secretary's

action about 95 per cent of the complement?
Aptain WILLIAMS. No, sir, it is not; that is the printed list of the plement of officers and men, together with the number of officers number of men on board.

Mr. Kelley. Admiral Coontz, you are familiar with the list that was submitted to the Naval Committee, I imagine?

Admiral Coontz. Yes, sir.

Mr. Kelley. Is the list on page 202 of this paper the same list of battleships that you have testified will be kept in commission next

Admiral Coontz. There are two changes, Mr. Kelley; there are

two vessels there too many; there should be 18 instead of 20.

Mr. Kelley. The West Virginia is not built yet, and what is the other one?

Admiral Coontz. The Colorado.

Mr. Kelley. Then that makes a difference of about 2,500 men?

Admiral Coontz. Yes, sir.

Mr. Kelley. With that correction, Captain, I want you to put in the record at this point, following the battleships to be kept a commission, the number of men actually carried on these ships i they were in the Navy in 1916, say, on the 1st of July, 1916, number of men carried on each ship; also the number of men carried the 1st of July last, and a third column showing, I suppose, this figure here.

Captain Williams. Yes, sir.

Mr. Kelley. The number that you ask for next year?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. I would like that developed for each of the groups of For instance, the first group of ships will be the battleship by name, according to Admiral Coontz's testimony as to the ships the are to be in commission next year, with the number of men carrie upon them in 1916, the 1st of January, 1922, and the number you appect to ask to have carried next year. I want that carried right straight down through all these different groups of ships. Of course when it comes to destroyers, you can make an average; you do need to put down the number for each ship because, I suppose, the are substantially the same and there are so many of them.

Secretary Denby. I know you want to keep the record clear, and think those two new battleships, the Colorado and either the We Virginia or Washington, should also be carried at their probable com plement because they will certainly be added to the Navy list during

the next fiscal year.

Mr. Kelley. But when you do that you take out two and you take the personnel off of them.

Secretary Denby. But we want to show the difference.

Mr. Kelley. We do not want any element in here where there a duplication of men.

Secretary Denby. Not at all; but I merely meant to say that the

are greater ships.

Mr. Kelley. You see, you are not required to carry 20 shi

under this treaty.

Mr. Byrnes. I think this is what the Secretary has in mind. the the two new ships will require a complement different from the q

Secretary Denby. They are very much larger and I wanted;

show the difference; that is all.

Mr. Byrnes. So you ought to put the two new ones in.

Mr. Kelley. On the *Delaware* you have 1,196 and on the *Colorado* ou have 1,266; about 70 more.

Secretary Denby. Well, whatever it is. I know you want to get

ne record correct as to the personnel.

Mr. Kelley. You understand what I want, Captain?

Captain WILLIAMS. I will have that prepared for the record.

MONITORS.

Mr. Kelley. And I am glad you are here so that we can take up latters as we proceed from this point on. Now, the monitors.

Admiral COONTZ. The monitors all go off for good, except the

heyenne. The Cheyenne is training naval reservists.

Mr. Kelley. Why not make a clean sweep of the monitors?

Admiral COONTZ. Mr. Kelley, the question of the reservists deends entirely on Congress this session. As long as the present law ands it is our duty to have the ships and train them. If they are solished and no appropriation is made, we will quit; but if you pass to new law which has been prepared, we would still have to train to reservists.

Mr. Kelley. You would not need a monitor for them, would you?

SHIPS FOR TRAINING NAVAL RESERVES.

Admiral COONTZ. We have applications for very many more than a have. We are training reservists all the way from Duluth, aicago, and Detroit down to the Atlantic and down to the Gulf and it on the west coast, and the Secretary has had to turn down imerous applications. We do the best we can in the small cities train them and carry out the law.

Mr. Kelley. Can you not do the training of these boys on ships at are of some military value and not have so many in commission

r that special purpose?

Admiral COONTZ. We would like to do so if we had the ships of ilitary value and could afford to pay the money which is necessary get these people from the inboard cities to the coast and back.

Mr. Kelley. Where is the Cheyenne? Admiral Coontz. She is at Baltimore.

Mr. Kelley. It seem to me you could get a boat to Baltimore to ke her place, as no doubt she is very old.

Secretary Denby. Yes; she was built in 1902.

Mr. Kelley. What sort of a ship is a monitor now?

Admiral Coontz. Well, a monitor is a fairly old craft, but these it craft are all we have on which to give reservists their training; do not take the newer vessels for that purpose, and we have ently taken the Tallahassee away from Charleston, S. C., and put rout of commission. Our carrying this on, of course, is under the undate of the law, and we, of course, do the best we can under the rumstances. You must remember that we had at one time about 1,000 reservists to train, which would take a large number of ships re did it, but recently about 218,000 of them were disenrolled, but ny came back voluntarily and are serving free, and we have to do best we can to give them what training we can.

Ir. KELLEY. Why do you not put them on your regular ships in

summer?

Admiral Coontz. Well, there are a number of reasons, Mr. Keller. One is that the reservists can not get away for the necessary time; also it would cost a great deal of money to use the regular ships. If you will consider the number and residences of these men who are affected I think you will see the thing to do is to keep small ships in the various ports that do not move much and do not use much fuel and only take a few men to man them. We had a very sed experience with that about a year ago, when we put some of them aboard one of the ships of the fleet; it moved about 3,000 miles away and then was held temporarily, due to an emergency which area. There the reservists were and they were all anxious to get home to their jobs, and we had to use a remarkable amount of exertion to get them back. Of course if there is anything we can find that will replace the *Cheyenne* we are going to do it; we are watching all the time, and, as I say, we have recently got rid of the *Tallahassee*.

Captain WILLIAMS. In many cases these ships serve as quarters

for these reservists.

Admiral COONTZ. They have their drills on board; they are used as though they were armories.

Mr. KELLEY. You propose to take out all of the monitors except

the Cheyenne?

Admiral Coontz. Yes, sir.

Mr. Kelley. How many men will it take for the *Cheyenne?* Captain Williams. She probably has a few ship keepers.

Commander Leahy. She has 34 men.

Captain WILLIAMS. We had a singular experience with one of the monitors and I think we saved the upkeep of her for many years. A man named Isham wanted a test of some shells; we put a monitor a commission, took the Naval Committee down the bay and fired at his target. I think that cost about \$50,000 or \$60,000, but we demonstrated that Mr. Isham's contentions were not correct and put his out of commission.

Mr. Kelley. And did not hurt the ship?

Captain WILLIAMS. We put the ship in commission and put Market Isham out of commission. They were then spoken of as being use for the defense of Washington; they carried some very excelled 12-inch guns and at that time there was doubt as to whether the defenses of the lower river were sufficiently strong, and it was perfectly possible to put these ships, drawing 13 feet of water, at the mouth the Potomac. I do not know whether that condition obtains now.

Mr. Kelley. You only want 32 men for these ships?

Captain WILLIAMS. Yes, sir.

DESTROYERS.

Mr. Kelley. Go ahead with the destroyers.

Admiral Coontz. The destroyer question is a pretty big question and within the past week the Secretary has made up his mind to the committee this: We have 315 destroyers built, 3 now building and 12 authorized but upon which work has not begun. Fourth of those were changed into mine layers, leaving a total of Twenty-one are of the second line and are out of commission. The leaves 280. The Secretary is going to ask the committee to keep 1 of these destroyers in commission with 90 per cent crews and 23

mmission with 50 per cent crews, making 126 in commission and the rest out of commission. The fleet of 18 battleships calls for 2 destroyers, but the Secretary is reducing it to this number: fty-seven with the Pacific Fleet, 19 with the Atlantic Fleet, 19 th the Asiatic Fleet, and 8 in Turkish waters.

Mr. Kelley. How many men will that take altogether for these

strovers?

Admiral Coontz. The complement is 114, and 90 per cent of that 102. The complement of the others will be 57 men. That will 103 at 102 men and 23 at 57 men, or a total of 11,817.

Mr. Kelley. Let us see how many that is in men exactly; 103

ith 102 men—that is about 10,000?

Captain WILLIAMS. Ten thousand five hundred and six men.

Mr. Kelley. Ten thousand five hundred and six for the active stroyers. How many men for the 23 destroyers.

Admiral Coontz. Fifty-seven on each, or a total of 1,311.

Mr. Kelley. Could you reduce that a little bit without doing

ybody any harm?

Admiral COONTZ. No, sir. We have studied that with the utmost re, and to keep the machinery in condition we have to have that mber of men to prevent deterioration. We have tried it and we and that we could not do it.

The CHAIRMAN. You are asking for 11,817 men for the destroyers?

Admiral Coontz. Yes, sir.

Mr. Byrnes. How many men do you want on the 23 destroyers?

you want a complement of 57 men?

Admiral Coontz. Yes, sir.

Mr. Byrnes. And how many for the other destroyers? Admiral Coontz. One hundred and three with 102 men.

Mr. Kelley. How many destroyers has Japan? Colonel Roose-

t says 62.

Admiral Coontz. Japan has 88 destroyers and 62 additional ilding or projected.

Mr. Kelley. You are asking just about 5-3 on destroyers in active

nmissign ?

Colonel ROOSEVELT. It is 10-6. We are asking 103 to 62.

IT. KELLEY. And 23 in part commission for good measure? Admiral COONTZ. For the training and drilling of our younger offis and men as well as for their maintenance ready for any emericy and for replacements. We have found that the school at irleston is the best thing of that kind. Although the vessels are no out only 8 hours a month for training the officers and men, and king engineers out of them, and teaching them to handle the boats. hould also say that of the officers many are not graduates of the val Academy.

val Academy.

Ar. Kelley. Please tell us how you are handling those so as to

vent any deterioration?

Idmiral COONTZ. We expect to send a part of them to Philadelphia, We are trying to fix a place there for about 100 of them.

fr. Kelley. When you get the back basin cleaned out of your

ships you will have room?

dmiral COONTZ. We will not have so much room. We are cleanout the basin as fast as we can. The others will have to be placed of commission in San Diego. The condition is so serious that

we have appointed a special board to consider every phase of it, how best to put them out of commission and to make sure that everything is all right. It will take a certain small number of men to look out for them. Their machinery, engines, and boilers will have to be most carefully attended to and the ships as thoroughly dried as is possible.

Mr. Kelley. You grease them and shellac them and white lead

them and then put a few men on board to watch them?

Admiral Coontz. We will have a certain number of men attached to the whole group who will go over one after another. We have to watch out for freezing in the winter time. It is an expensive thing to put a destroyer out of commission. To take a destroyer from Charleston to Philadelphia and place her out of commission costs couple of thousand dollars for fuel in addition to the material, white The supplies and stores must lead, etc, that has to go into the ship. be taken out. It is important to keep these destroyers in tiptop con-They are the left hand of the fleet, the battleships being the dition. right hand.

Mr. Kelley. How did you arrive at the idea that you needed 103

in active commission?

Admiral Coontz. We need 76 for the battleships.

Mr. Kelley. Four times 18 is 72.

Admiral Coontz. And a leader for each squadron of 18, making 19 in a squadron. We maintain a squadron in China. There are 8 m Europe which we can not take away. We have been trying a long time to reduce them and have reduced them from 18 to 8. The makes 103.

Mr. Kelley. Did we have any ships in the eastern Mediterrance

before the war!

Admiral Coontz. I think we cleared everything out of the easter Mediterranean about the 1st day of August, 1914, when the we broke out.

Mr. Kelley. We got away from there?

Admiral Coontz. Yes, sir.

Mr. Kelley. What have we over there particularly to guardcitizens?

Secretary Denby. May I answer that question? It is a question of departmental policy.

Mr. Kelley. Yes, sir. Secretary Denby. The reason those ships are kept there is part to guard American interests in an area that is notoriously disturb and in which American interests are jeopardized at all times. are constantly asked by the Department of Commerce to aid in a laying radio messages and to aid in conducting refugees, passenged or released persons, and the Department of State also. be entirely denuded of ships of war in all Europe, and those are whi It looks to me like a very small number.

Admiral Coonty. There is one station ship in Constantinople,

two subchasers that we are trying to sell.

Colonel ROOSEVELT. You spoke of 23 destroyers that we had half commission as being for good measure. The Japanese will com plete, in the year 1922, 11 new destroyers which will go into commi sion, so they are not simply for good measure, they are for ratio.

Mr. Kelley. When will they be done? Colonel Roosevelt. In 1922.

Mr. Kelley. What time?

Colonel ROOSEVELT. Within the next five or six months. They

re practically completed.

Secretary DENBY. May I simply say, Mr. Chairman, that we have **sept** you informed of the number that we planned to put out of ommission.

Mr. Kelley. Yes; I had forgotten to ask you. When does this

erder take effect?

Admiral Coontz. I am free to state that it will possibly take four nonths before the last one is out of commission. As I said, the tmost care has to be taken of each one. We can not make any mistake; they are too valuable.

Mr. Kelley. It is your plan to reduce the destroyer force to 126

y the 1st of July?

Admiral Coontz. We figure on the 15th of July, but it will be at he earliest practicable date.

Mr. Kelley. But for purposes of calculation we can figure on 126 or the next year?

Admiral Coontz. Yes, sir.

PLACES AND PLAN OF PUTTING DESTROYERS OUT OF COMMISSION.

Mr. Byrnes. These destroyers which you put out of commission,

hat do you do, tie them out like at Charleston?

Admiral COONTZ. If we leave them at Charleston, they will have to e moored in groups. If we can put them out of commission at hiladelphia, they will lie alongside of each other in the basin.

Mr. BYRNES. When you spread them out in the basin, as described,

o you require many men to care for them?

Admiral Coontz. Not very many.

Mr. Byrnes. Have you made any estimate as to how many?

Admiral Coontz. Not yet, but the number will be small, because hen the boats are thoroughly prepared before going out of commis-on the care-taking force will only have to inspect for deterioration Mr. Byrnes. Do you keep mechanics there greasing the machinery

prevent deterioration?

Admiral Coonty. These men that stay there, the small number, ill be destroyer men of the mechanical and electrical ratings who now their business. They would be men who are getting toward the d of their career, and to give them a light job and to put the younger en to sea.

Mr. Byrnes. A few men to a ship could care for the machinery on a

strover?

Admiral Coontz. I think so.

The CHAIRMAN. The machinery will be overhauled before the ssel is laid up?

Admiral COONTZ. But some one has to go around to find and correct

v deterioration that may take place.

The CHAIRMAN. To see that the ice does not jam the ships, but you not have to overhaul the machinery more than once.

Mr. Kelley. Why would it not be better to leave the ships down at

Charleston; that is a warm climate?

Admiral COONTZ. That is a very hard question to decide. There are two things. One is the likelihood of storms and another is that it will probably take a larger number of men at Charleston. We can not leave vessels lying moored in the harbor without proper caretakers, and in Philadelphia we have the protected basin.

Mr. Kelley. Is the fresh water an element to consider?

Admiral COONTZ. The fresh water in the basin is an element that will be considered and will have considerable influence on the decision. We may leave a part of them at Charleston.

Mr. Kelley. Does not the back basin freeze up in winter? Admiral Coontz. Yes, sir. We may leave them at Charleston.

Mr. Kelley. Charleston is on a river with fresh water?

Admiral COONTZ. The water at Charleston is brackish and there are strong tidal currents. The tendency of the plumbing to deteriorate is a little greater at Charleston, not much. We may leave them at Charleston or San Diego. We are pretty sure to leave some at San Diego.

NECESSARY COMPLEMENTS OF DESTROYERS.

Mr. Kelley. I think I had it from some officer that 87 men was a good, fair complement for an active destroyer. What is your opinion! Admiral Coontz. My honest opinion is that 114 is the proper complement.

Mr. Kelley. That is the maximum number for war time?

Admiral COONTZ. For economy the Secretary decided on 90 per cent, and those we do keep in commission we want right at the top of efficiency.

Mr. Kelley. Does not the 114 include the 10 per cent extra car-

ried for war purposes?

Admiral COONTZ. No, sir. We take 90 per cent of the regular complement that she should have at all times. She will go into was with 114 and more.

Mr. Kelley. I thought that you only had 87 now?

Admiral COONTZ. Some of them have less than that, those in reserve. All those in China have 114. They are a long way from home and we have to keep the crews full.

The Chairman. Eighty per cent being 91, that would be more than they have now in time of peace when you really do not need the crews full, and it seems to me that 80 would be all that was necessary

to keep them in tiptop order !

Admiral COONTZ. They have to cruise and go through their evolutions and drills, and we feel that as we have reduced them so greatly and as we have no light cruisers now, while the British have about 300,000 tons, that we must keep the destroyers up to snuff and the men well trained in case an emergency should occur, because we would have to deplete them to fill up the other destroyers. They are used for all sorts of duty, in scouting and screening, and have to be well up so that when we cut this large number we can better keep those we have left in good shape.

SUBMARINES.

Mr. Kelley. We will pass now to the submarines.

Admiral Coontz. I have the director of submarines here, if you uld rather have him give the evidence.

Mr. Kelley. I think you know all about the subject. You can

Il on him if you get stumped.

Admiral COONTZ. The first one that I come to is the D-3, which is neduled to go out of commission. I think it is marked in the book. where F-2, scheduled to go out of commission; F-3 scheduled go out of commission.

Mr. Kelley. I wonder if we can not shorten that. How many of ese submarines do you propose to put out of commission because old age? I suppose you would take out all of the A's, B's, and C's

start with?

Admiral Coontz. I can run down the line if you care to have me SO.

NUMBER AND COMPLEMENTS OF, TO BE KEPT IN COMMISSION, 1923.

Mr. Kelley. What is the total number of submarines you desire keep in commission for next year?

Admiral Coontz. The total number of submarines to be kept in mmission next year is 84 in full commission and 27 with two-thirds **mp**lements.

Mr. Kelley. How many men will the 84 submarines take?

Commander Leahy. 2,579.

Mr. Kelley. How many men on a ship?

Admiral Coontz. That is under the 90 per cent. It varies from to the latter boats which run 42.

Mr. Kelley. You have 84 submarines with a total number of how anv men?

Captain WILLIAMS. Under the 90 per cent-

Mr. Kelley (interposing). Never mind talking about that.

Captain WILLIAMS. Two thousand five hundred and seventy-nine en.

Mr. Kelley. For 84 submarines?

Captain WILLAIMS. Yes, sir.

Mr. Kelley. And for those in two-thirds commission?

Captain WILLIAMS. Four hundred and thirty men.

Mr. Kelley. Making a total of 3,009 for the submarines?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Now, please tell us why you need so many as 84 and submarines?

Admiral Coontz. Built and building we have 141.

Mr. Kelley. You have only 111 here?

Admiral Coonty. One hundred and forty-one is the total number. Mr. Kelley. But the 111 are all the submarines that you have of r real value?

Idmiral Coonty. Yes, sir. The idea is this, when we introduce the r ones later-

fr. Kelley (interposing). You will take out some of these?

dmiral COONTZ. The older ones would go out.

Ir. Kelley. One hundred and eleven would be the total number : vou expect to keep in commission next year?

Admiral Coontz. Yes.

Mr. Kelley. The A's, B's, and C's, that type, were built so long

ago that they would not be very valuable?

Admiral Coontz. There are the 15 S type submarine still to be completed, but they will not be ready to commission during the fiscal year 1923.

Mr. Kelley. That is what I want to know, why you want to keep

all the ships of this character that you have in commission?

Admiral COONTZ. I think the keeping of submarines in commission is because that is the only way to save them. When a submarine goes out of commission we consider that she is about done for. She has a storage battery worth about \$200,000, and if once laid up that practically goes to pot, so that the two-thirds of the crew will keep the vessels in operation, so that you can save all of the machiner. Submarines are different from destroyers in that respect.

Secretary Denby. There is another thing about the submarine. That is the extreme difficulty of training the men. You can not pick them up; you have to train them. The men who are willing to take the extra hazard, we can not afford to let them get down to the lower

point, because you can not train submarine men quickly.

Mr. Kelley. How many submarines has Japan?

Colonel ROOSEVELT. She has somewhere in the neighborhood of 3

Mr. Kelley. Can you give the exact number?

Colonel ROOSEVELT. I can not. My latest advice is that six more came into commission in the last five months.

Mr. Kelley. Five-thirds of 33 would be 55.

Colonel Roosevelt. Great Britain has 100 in commission, at 184 is 84 per cent of 100.

Mr. Kelley. You think that Great Britain will keep all of the

in commission?

Colonel Roosevelt. We do not know what Great Britain will dinext year.

COST OF SUBMARINES.

The CHAIRMAN. Can you give me now the cost range?

Admiral Coontz. I should like first to give the cost of the vessel. The lowest one, I see, O, is \$523,000, and the highest one is \$2,168,000. Those are the cost ranges.

Mr. Kelley. The \$2,000,000 fleet submarines are the very lar

ones !

Admiral Coontz. Yes, sir. The other figures are \$1,200,00 \$1,300,000, and so on.

Mr. Kelley. Those are the war costs, most of those were but

during the war?

Admiral Coontz. Yes, sir. Now, the new ones cost \$1,440,00 The total maintenance and operation cost of an O boat last year, Madden, including the officers, rations, stores, operating expensions of a result of the stores.

equipage, etc., was \$53,000.

I will just take a few cases at random. Here is one at \$61,0 another at \$48,000, and another at \$72,000. In the case of the R which, of course, cost more, they range from \$83,000 up to \$113,000. I take it that these vessels were in commission all the year around with crews, while vessels that were operating with two-third crewould have nowhere near that expense.

Mr. Kelley. At this point put in the list of submarines, by name r number, with the number of men on the several dates we have adicated, with a statement showing the exact number of men to be arried on each one.

Captain WILLIAMS. I will supply that. [See p. 216.]

Mr. Byrnes. How many men do you carry on a submarine?

Admiral Coontz. The number varies from 21 to 42. The average Babout 30.

Mr. Byrnes. The figures you gave Mr. Madden include the cost of **verything?**

Admiral Coontz. Yes, sir; they represent the entire cost.

Mr. Kelley. Some of them run more than the cost you have The K-boats last year ran to \$146,400, and one of the Ooats cost \$211,000.

SUBMARINE CHASERS.

Mr. Kelley. Now, we will take up the submarine chasers. e glad if you will make a statement about the submarine chasers,

nowing what is intended to be done with them.

Admiral Coontz. There were built for the Navy 341 submarine pasers, and there are now left in the Navy 80 submarine chasers. here are in commission 31 submarine chasers; training reservists, 7 submarine chasers; out of commission, 18; on sale, 10, and loaned 4. We expect to reduce the entire number in the naval service to 40.

Mr. Kelley. Why not make a further reduction of 40? Admiral Coontz. That is a question which depends on the future the Naval Reserve.

Mr. Kelley. They are not of any good to fight with, or for any her service except to use gasoline, which is a very expensive comodity.

DUTIES OF SUBMARINE CHASERS.

Admiral Coontz. I must differ from you there. They are good fight with.

Mr. Kelley. Let us get them out.

Admiral Coontz. They did good service in the war. A lot of em went across. There are 16 of them in use for training reservists. we did not have the reservists, then we would very cheerfully t them out. I would like to run over this list showing what serce each of them is performing. We have two submarine chasers the coast of Florida. They are keeping the sovereignty of the nited States intact by preventing a cable line from being landed thout proper authority.

Mr. KELLEY. If they can keep the sovereignty of the United States

act. they are better than I thought.

Admiral Coontz. We have had to keep those two vessels on the prida coast at the direction of the President of the United States this time, and I would be glad to read a statement showing in at duties the rest of them are engaged.

Mr. Kelley. What guns do they carry?

Admiral Coontz. They carry one 3-inch gun and two machine B. They can carry rifles. However, one of them overhauled cable ship by firing across her bow, and she has never landed cable.

The CHAIRMAN. As I understand it, a permit has been granted for that cable.

Admiral Coonty. No, sir; we have written to the State Department within a week or two in reference to that. These cost a lot of money down there. That is done under the President's order. There are 43 of them in commission, and we would gladly take out 16 except for the reservists. There is no desire on our part except to do what we actually have to do in this connection.

Mr. Kelley. The figures show that they are costing quite a lot For instance, No. 96 cost \$8,639 for the first three of money.

months of this fiscal year.

Admiral COONTZ. That one is at Constantinople.

Mr. Kelley. We have destroyers at Constantinople, and these little boats will not do much in maintaining the dignity of the United States over there.

Admiral Coontz. But it will save money, because destroyers doing the same service would cost 5 or 10 times as much.

Secretary DENBY. We will get rid of that one, anyhow.

Mr. Kelley. No. 154 cost \$6,340 for the first three months of this fiscal year.

Admiral COONTZ. That one is on duty preventing the landing of a cable by order of the President.

Mr. Kelley. That would be at the rate of \$25,000 a year.

Admiral COONTZ. That subchaser is performing duty under Executive order. We would be glad to take it away.

Mr. Byrnes. The figure on this statement I have is \$13,000. Is

that for a year?

Admiral COONTZ. I take it that is for a year. I think these tables

run for many years, and anything that comes up is added on.

Mr. Byrnes. If this figure is for a year, then the figures that the chairman read would indicate a greatly increased cost during the last few months.

Mr. Kelley. When they are going at full blast, I understand that

they use 60 gallons of gasoline an hour.

Admiral COONTZ. They have three engines, and I think those vessels that were watching the cable ship were steaming up and down all the time.

Mr. Kelley. No. 271 cost \$4,508.48 for the first three months of

Admiral Coontz. That one is training reservists.

Mr. Kelley. No. 306 cost \$7,609.20.

Admiral COONTZ. That is at San Diego looking after the air force when they fly out to sea. It tows them back in.

Mr. Kelley. No. 338 cost \$9,416.97.

Admiral Coontz. That is another one of those at Constantinople; We have offered that one for sale.

Mr. Kelley. No. 412 cost \$9.359.41 for three months of this year. Admiral Coontz. She is at Chicago for training the reservists. She is making her usual cruises. She is used in training reservists all the way from Chicago down the Lakes.

Mr. Kelley. If we did not give you any men for these boats, you

would not care much, would you!

Admiral Coontz. If you did not give us any men for the sub chasers, we could not provide training for the reservists, which w

e required to do under the law. That is something over which we ave no control.

Secretary Denby. We regard the reservists as a very important ljunct of the Navy, and I think everybody does. We must take

are of them in some way.

Admiral Coontz. The greatest interest is taken in this training long the Lakes, and these boats go all the way from Chicago down Detroit, and up to Duluth. That is a situation that we must meet.

Mr. Kelley. They are pretty poor boats to train anybody on. Secretary Denby. You can train them in target practice.

Mr. Kelley. If you did not have these boats, you would not ask s to build them?

Secretary Denby. Not of this type; no, sir. I was in the Naval leserves after the Spanish-American War, and there was never a me when we did not have a good ship up there on the Lakes.

Mr. Kelley. Why not follow that policy now? Secretary Denby. Well, give us a good ship. After the Spanishmerican War, we had the Yantic, the Don Juan de Austria, and the lopher on duty up there. That is something we do want very much adeed, and we have a separate bill, which will ultimately reach you, regard to the stabilizing of the reserves.

Admiral COONTZ. The ninth district, in which, I believe, you and

Ir. Madden live, has more than 4,000 of these reservists.

Mr. Kelley. How many boats do you have up there? Admiral COONTZ. We have 11. That is a pretty small number. every one of those boys is enthusiastic, and we get calls from Milraukee, Detroit, and other places up there asking us to keep it up. f we should leave them, it would break their spirit.

Mr. Kelley. I would rather strike all this out and send a good

hip up there, just as we had before the war.

Admiral COONTZ. There is a treaty that does not allow it.

Mr. Kelley. How did you manage that before the war? Secretary Denby. We had the Yantic, the Don Juan de Austria, **nd** the *Gopher* up there.

Mr. Kelley. They were real ships. Secretary Denby. Yes, sir. We had the Yantic, which was a rooden ship built in 1864; and, also, the Don Juan de Austria, one of he captured Spanish ships. We also had the Gopher. We had everal yachts and vessels of that type that were of no military alue, but on which men were given a training that enabled them go in as first reserve men. They learned their way about ship a ttle, knew how to wear the uniform, how to shoot, etc. The Naval filitia and naval reservists are blending now, and both are very aluable adjuncts to the Navy.

Mr. Kelley. How many men do you want for these little boats? Admiral COONTZ. Not very many. I will ask Captain Williams

) answer that.

Mr. Kelley. How many men do you want for these boats, Cap-

Captain WILLIAMS. I will supply that for the record.

Mr. Kelley. You can supply the number required for each boat. Captain WILLIAMS. For those in reserve we will want three men the nature of caretakers and 15 men for those in full commission. depends on what they are used for. I will make up a table of that. ee p. 216.]

EAGLE BOATS.

Mr. Kelley. I notice that you have spent during the first quarter of this fiscal year \$1,012,844 on Eagle boats. Are they worth it?

Admiral Coontz. Yes, sir.

Secretary DENBY. There are not many Eagle boats, and we will be glad to strike out any that do not seem to be really needed. are only 48 Eagle boats in commission.

Mr. Kelley. Last year you spent \$4,208,000 on them, as I recall it. Secretary Denby. If they are not worth it, we will be glad to get

rid of them.

Mr. Kelley. Do you think they are worth it?

Secretary Denby. We will furnish you a statement of those that we think we must have.

Admiral Coontz. There are 54 Eagle boats. Secretary Denby. There are only 48 in commission.

The CHAIRMAN. How many did you have in 1916? Admiral Coontz. None. There are in ordinary at Portsmouth, 12 which require 100 men; No. 9 is in the fifth naval district training reserves; No. 10 is out of commission; No. 11 is on duty with subject to the subject of the subj marines at San Diego; No. 12 is training reserves in the eleventh district; No. 13 is training reserves in the third district; No. 14 is a duty with submarines at Pearl Harbor; No. 15 is training reserves the third district; No. 17 is on duty with submarines at Hampton Roads; No. 18 is in ordinary at Portsmouth; No. 19 is training reserves in the first district; No. 20 is on duty with the marines Quantico: No. 24 is in ordinary at Portsmouth; No. 26 is training reserves in the third district; No. 27 is training reserves; No. 28 is ordinary; No. 29 is training reserves on the Maine coast; No. 31 is the Isthmus; No. 32 is out of commission: No. 33 is on submare duty; No. 34 is training reserves; No. 35 is training reserves; No. 3 is training reserves; No. 37 is in ordinary; No. 38 is training reserve No. 39 is training reserves; No. 40 is on duty at air stations; No. 4 is in ordinary: No. 42 is training reserves; No. 43 is out of comm sion; No. 44 is training reserves; No. 45 is in ordinary; No. 46 is 4 group flagship for 12 Eagles in ordinary at Portsmouth; No. 47 training reserves; No. 48 is training reserves; No. 49 is training serves: No. 50 is in ordinary: No. 51 is training reserves; No. 52 been ordered out of commission: No. 53 is out of commission; No. is training reserves; No. 55 is training reserves; No. 56 is training reserves; No. 57 is training reserves; No. 58 is training reserves No. 59 is training reserves; and No. 60 is out of commission.

Mr. Kelley. Nearly all are training reserves?

Admiral COONTZ. Yes, sir; nearly all of them. Secretary DENBY. I would like to state that the general tenden in reference to all of these vessels in the Navy is to sell those of while no beneficial use is being made.

Mr. Kelley. In the meantime, can you not tie them up?

Secretary Denby. Those that are not in beneficial use will be d posed of.

Mr. Kelley. How many naval reservists have you trained # year ?

dmiral Coontz. A large number. Ir. Kelley. Where did you train them? dmiral Coontz. On the Lakes and on both seaboards.

TRAINING OF NAVAL RESERVE.

Ir. Kelley. Tell us where these boats that are training naval rvists are located.

dmiral COONTZ. The first one is here at Washington, D. C. y have a very live organization; they cruise on the Potomac er.

Ir. Kelley. Do they make trips every day?

dmiral Coontz. They are about as enthusiastic a crowd as you

Ir. Kelley. Is that boat in commission all the time? dmiral Coontz. Yes, sir.

Ir. Kelley. Where do you get naval reservists to serve on the t all the time?

dmiral Coontz. I meant to say that she goes out frequently. course, Captain Williams can tell you more about it than I can. aptain Williams. I am not at all certain but that some committee it aboard that Eagle boat when it came over from Richmond.

Ir. Kelley. How many naval reservists are there in Washington? aptain Williams. Two hundred and twenty-five on March 1, 1922. Ir. Kelley. When do they train?

aptain WILLIAMS. They train on Saturday and Sunday cruises in the river, and during the summer they make more extended

Ir. Kelley. What does the boat do the rest of the time? aptain WILLIAMS. She lies up here at her dock.

Ir. Kelley. Steamed up?

aptain WILLIAMS. No, sir. They have guns on board, and it forms ase for the organization. It is a sort of floating armory. To trate that point further, in many places we had an old organizaof Naval Militia which was primarily a State organization, and States gave them armories. When the Federal Government ned the reserves, in many places the Government gained the shit of those militia organizations which had the use of State ories. Here in Washington they have a small armory down e. If I am not mistaken, it is the only one in the District. y overflowed that armory, and they needed encouragement for That particular organization is peculiar in this r drills, etc. ect, that it has in its organization a number of very high class xmen, machinists, etc., who are employed in the Washington

r. Kelley. Let us not go into the details now, because it will g. and I see that this one makes cruises on Saturdays and lays. e the record too long. I want to know what these boats are

ptain WILLIAMS. And summer cruises.

r. Kelley. How many cruises does it make in the summer? ptain WILLIAMS. I do not remember exactly those cruises. member one that came from Richmond, and I think they were bout three months.

Mr. Kelley. Summer cruises could be as well made with & stroyers.

Captain WILLIAMS. No, sir.

Mr. Kelley. Why not put them on battleships and other vesse of that kind in summer, where you already have the expense anyhor Captain Williams. We have tried that, and it is not satisfactor

Mr. Kelley. I should think it would be better to have them to on the ships on which they are likely to serve, instead of on the little boats.

Captain WILLIAMS. In the first place, the principal thing about the reserves is to cultivate their morale. They can not meet we and monthly, as the custom is, and hold the organization toget unless they have some place at which to meet. The National Gu have their armories, but these people have no armories.

Mr. Kelley. Do they no meet in the National Guard armor Captain Williams. Not regularly. They have no right to do Mr. Kelley. We carry an appropriation in the bill for armore Captain Williams. They carry \$29,000,000 for National Gramories in the Army.

Mr. Davis. We gave them all they asked for here in Washing

Mr. Kelley. Where else are these boats located?

Captain WILLIAMS. There are some in the various districts, as they will go. For example, there is one at Richmond.

Mr. Kelley. And one in Washington?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You have one of these Eagle boats in Richmon Captain Williams. Yes, sir. These reservists are made up of who are interested in this movement, and they are scattered in a groups up and down the river.

Mr. Kelley. What did we do with those reservists before the Captain Williams. We did not do much of anything with the

We did not have them.

Mr. Kelley. What did we do with the Naval Militia?

Captain WILLIAMS. The Naval Militia was a different thing.

got Federal aid and also State aid.

Mr. Kelley. Suppose we leave that question for the mon As I understand it, practically all of those you need are needed naval reservists, and we will discuss the naval reservists when come to that item.

Admiral COONTZ. I might make this statement: Of the 48 we l 25 are training reservists, 13 are in ordinary, 8 are used for submiduties, and 1 for air station duty, and 1 is used here at Quan Now, then, the question will come down finally to the 25 that used for training reservists, because 12 are in ordinary, and t that will not be needed will go out of commission.

Mr. Kelley. What you are really asking for is about \$4,000 for these boats. That is just about the rate of expenditure the going on now.

Admiral COONTZ. Yes, sir.

Mr. Kelley. They cost \$484,000 for the first three more This is one place where I think you could very well use some st arm tactics, and it would not make much difference with the ser It would not hurt that part of the Navy which will contribute to defense of the country.

etary Denby. Except in so far as the Naval Reserves are ned.

Kelley. Well, if they have to be trained in that way then it to the question as to what is the most economical way to

airal COONTZ. If we did that, they would be reduced to about at is, if you take the reserve business out.

Kelley. If you did not use any of them for the Naval Reserves, ld take about 10.

niral Coontz. We would keep about 10.

Kelley. And they average about how many on board? tain WILLIAMS. The Naval Reserve complement is 10.

niral Coontz. But these all have various duties which will oly appear later.

Kelley. The Naval Reserve complement is 10 and you are 18, as I recall?

niral Coontz. Twenty-five. Eagles are assigned to training

Kelley. That would be 250 for the Naval Reserves, and how are on board when you use the regular ships?

tain WILLIAMS. The full complement is 54, but they probably not have the full complement.

iral Coontz. The average is about 45.

Kelley. Do you have that many on board now? iral Coontz. Yes.

Kelley. That would be 450 more?

niral Coontz. Yes, sir.

Kelley. So you are using about 700 men?

etary Denby. Except as to those in ordinary. Kelley. Well, they might as well be greased up and packed might they not?

iral Coontz. We can do that.

etary Denby. Or we might sell them.

Kelley. If you could sell them, that would be the thing to do. e, they run into money very fast; they ran into \$1,000,000 in nonths.

etary Denby. Do you not think it would be better to sell han to lay them up?

Kelley. I do not know a thing about the sale prices you are

Davis. To whom can you sell them?

etary Denby. We sold 112 subchasers at one sale, and we got

DAVIS. Who buys them?

etary Denby. I do not know, but some fellow buys them; he ts them and makes them into very attractive yachts. He may some money out of them in that way, but we could not do it. Davis. They buy them for peace purposes and not for war

etary Denby. Yes.

1363-22-17

TORPEDO-BOAT TENDERS.

DESTROYER TENDERS.

Mr. Kelley. The next are torpedo-boat tenders. Are these dedestroyer tenders or submarine tenders?

Admiral Coonty. These are destroyer tenders and submarine

Shall I run right down the list?

Which ones are you going to strike off? We Mr. Kelley. Yes.

can make a big reduction here, can we not?

Admiral COONTZ. The Alert is to be sold; the Beaver will remain in commission; the Buffalo will not remain in commission; the Bushnell will remain in commission; the Dixie will go out of commission; the *Dobbin* is being built.

Mr. Kelley. Will the *Dobbin* be in commission this year?

Admiral Coonty. She will not. The Fulton will remain in commission; so will the Hannibal; the Iris has been sold; the Lebanon is out of commission; the Leonidas is to be sold; the Melville is to remain in commission; the Panther is to go out of commission and be sold; the Pompey is on the sale list; the Prairie is to go out of commission when relieved and is to be sold; the *Prometheus* is to remain in commission; the Rainbow is to remain in commission; and the Whitney is being built.

Mr. Kelley. Will the Whitney be in commission this year?

Admiral Coontz. No, sir. I believe there are 13 there, there are? being built, there is 1 out of commission, there is 1 already ordered out of commission, there are 2 more ordered out of commission, and we finally expect to keep 6 destroyer tenders.

Mr. Kelley. Six tenders?

Admiral Coontz. Yes, sir; six destroyer tenders.

Mr. Kelley. How many men will those tenders take?

Admiral Coontz. Captain Williams, I think you had better put that in, for this reason, that in the Secretary's latest order he reduced that to six.

Captain Williams. I will put that in the hearing.

Mr. Kelley. Do not put in any that are being built.

Captain WILLIAMS. No, sir.

Mr. Kelley. Put in your list the number of men on each one, following the same order that was suggested awhile ago.

Captain Williams. All right, sir. (See p. 216.)
Admiral Coontz. One moment. This list has two kinds of tenders in it.

Colonel ROOSEVELT. You have the destroyer tenders and submarine tenders together; as a matter of fact, the list of your destroys tenders is correct, that is, six are to be kept in commission and the balance are to go out.

Mr. Kelley. Can you give me approximately the number of men

the six will require!

Colonel Roosevelt. Two thousand seven hundred and fifty-nine for the six.

Captain Williams. The Beaver, Savannah, Bushnell, Camden, and

Fulton have 1.618 men on board.

Colonel ROOSEVELT. We are on the submarine tenders as well on the destroyer tenders, and I think we had better separate the or we will get fearfully mixed up.

Mr. Kelley. These tenders are both submarine and destroyer

enders, are they?

Colonel ROOSEVELT. No, sir; the six I gave you are destroyer enders. I think it would be much simpler if you took the destroyer enders first and went over them and then the submarine tenders.

Mr. Kelley. But the six are for both and the total is right?

Colonel ROOSEVELT. No. Captain WILLIAMS. The classification in the Paymaster General's eport is not the same classification we have made. The list you are eading from includes both.

Mr. Kelley. Admiral Coontz, how many tenders will there be

with the destroyers?

Admiral Coontz. Six.

Mr. Kelley. How many tenders will there be for the submarines? Admiral Coontz. Seven.

Mr. Kelley. Where do we find a list of those?

Admiral Coontz. As we run down I will find them. The top one The next one s the Alert; it is to go out of commission and be sold. is the Beaver, submarine tender.

Captain Williams (interposing). She now has on board 300. Admiral Coontz. The Beaver stays in commission and she is a submarine tender; the next submarine tender is the Bushnell and she remains in commission.

Captain Williams. She has 179 men on board. Admiral Coontz. The Fulton stays in commission.

Mr. Kelley. Is she a submarine tender?

Admiral Coontz. Yes, sir.

Mr. Kelley. Colonel Roosevelt, how many submarine tenders did you say would be necessary?

Colonel ROOSEVELT. Seven.

Mr. Kelley. And we need 13 out of this whole list of 19?

Colonel ROOSEVELT. Yes, sir; we need seven submarine tenders, with a complement of about 1,882 men, and we need six destroyer tenders, with a complement of somewhere around 2,200 men.

Admiral Coontz. There is an extra ship on this list, known as the

Prometheus, which is a repair ship.

Colonel ROOSEVELT. I think you have it right now; the destroyer tenders first, then the submarine tenders, and then the fleet repair vessel.

Mr. Kelley. This is a very big item, and you have not reduced it Although you have taken out a large number of destroyers, you have only taken out-

Admiral Coontz (interposing). Twenty-five per cent; we have

taken out two.

Mr. Kelley. Two tenders? Admiral Coontz. Yes, sir.

Mr. Kelley. Last year this service cost over \$10,000,000.

Colonel ROOSEVELT. But I think you will find we have reduced it more than you think. Let me just explain our reasons, and perhaps that will clarify the situation. A destroyer tender goes with a flotilla of destroyers. Now, if you will calculate and see where our destroyers are and how they are disposed of next year, you will get the exact number we have. In other words, we are going to keep 19 destroyers with the Atlantic Fleet, and there will be one tender; we are going to keep 57 destroyers with the Pacific Fleet, with three tenders; we are going to keep one destroyer flotilla in Asiatic waters, and that is another one, making five; and there would be one more with our 50 per cent complement destroyers, wherever they are based, which would make six.

Mr. Kelley. And you only have eight now?

Colonel ROOSEVELT. No: we have nine now, have we not?

Admiral Coontz. No: we only have eight.

Colonel ROOSEVELT. We have 11 now, two of which are building.

Mr. Kelley. But you do not have those.

Colonel ROOSEVELT. I should have said that we have 13, 2 being being built; taking off those 2 makes 11; therefore we now have 11. You see, I stopped with the 13 and went back to the 11, making 11 now.

Mr. Kelley. But the admiral says eight, and I would like to know who is right.

Colonel ROOSEVELT. We reduced five of them-

Mr. Kelley (interposing). Wait a minute, Colonel; you and the admiral are quite at variance here.

Colonel ROOSEVELT. We have 11 and we take 5 out of commission, leaving 6, so we cut them nearly in half.

Mr. Kelley. Admiral, is that correct?

Admiral Coontz. Yes; we cut down to six.

Mr. Kelley. And you are taking out five? Admiral Coontz. We are taking out five.

Mr. Kelley. From the present number or from some number in times gone by?

Admiral Coontz. We have ordered—

Mr. Kelley (interposing). What I want to know is how many you have right at this minute.

Admiral Country. I have got to turn to my destroyer man.

many have we?

Captain Kalbfus. I think a point that is not quite clear is that there are three destroyer tenders recently acquired from the Shipping Board and which are to replace three in that list, so that makes a double number appearing in the list.

Admiral Coontz. But to-day we have eight in commission, and ordered out of commission two, thus reducing to six.

Captain Kalbeus. You see, you have a double number there, so

that you are really counting twice.

Mr. Kelley. So that you are not making the reduction you thought you were making, because you are only reducing in number from eight to six.

Colonel ROOSEVELT. Last year how many did we have?

Captain Kalbeus. We have never had more than eight destroyer tenders.

Mr. Davis. You only have one actually out of commission, but you have three that you have ordered out—is not that right?
Admiral Coontz. Yes, sir.

Mr. Davis. One actually out and three you have ordered out, but not out vet?

Admiral Coontz. We are going to reduce it to six.

Mr. Kelley. You are laying up 150 ships and taking out only two of these ships, two out of eight.

Colonel ROOSEVELT. As tenders, yes; but we will have a number destroyers based on shore stations, and at the shore stations we eve tenders.

Mr. Kelley. Admiral, why could you not get the oil for these ups in peace time without having tenders in commission except hen you are making a cruise or something like that, so as to have nem in commission only part time?

Admiral Coontz. They have nothing to do with the oil.

Mr. Kelley. These are all supply ships?

Admiral Coontz. Yes, sir.

Mr. Kelley. Why can not the supplies ordinarily be taken from ne base?

Admiral Coontz. Oh, Mr. Kelley, think of the time you would ave to consume and the cost of it. This proposition is the outrowth of a study of years; it keeps the destroyers from going to the avy yards.

Mr. Kelley. How many tenders did you have before the war?

Admiral Coontz. We probably had a greater proportion that we ave at the present time; before the war I think we only had 50 estroyers.

Mr. Kelley. And how many tenders did you have?

Captain Kalbfus. I think we had three.

Mr. Kelley. And now we have 6 with 126; 3 with 50 and 6 with 26, and how many men did you have?

Captain Williams. For destroyer tenders, 2,326.

Colonel Roosevelt. No; for the seven somewhere around 2,200. Mr. Kelley. At this point put in a table showing the names of nose you intend to keep in commission, with the number of men ow carried, the number you want for next year, and if it were in xistence before the war, put in the information for that time.

Captain WILLIAMS. Very well. [See p. 216.]

Mr. Kelley. What was it you said about three tenders from the hipping Board?

Admiral Coontz. I will have to ask Colonel Roosevelt to reply to

Colonel Roosevelt. A little while ago we had a lot of very old ips in commission and an old ship is very expensive to operate. he Shipping Board had a certain number of new ships which would very much less expensive to operate, and instead of selling the d ships and putting us to the expense of building new ships, which ould have become necessary very soon, we took over these new ips. They gave them to us and we disposed of our old ships, ereby cutting our cost of operation.

Mr. Byrnes. How about these two that are building? When are

y going to be completed?

Admiral Coonty. The date of completion is indefinite.

Mr. Kelley. You do not need them now at all?

Admiral Coonty. Oh, yes. I would like to read the names of the ones that are going out, because I know you will recognize some them.

Mr. Kelley. Are they tenders?

Admiral Coontz. Yes. The Prairie, the Panther, the Leonidas, I finally the Dixie. You remember them in the last century?

SUBMARINE TENDERS.

Mr. Kelley. Now the submarine tenders. Give the names of the submarine tenders you intend to keep.

Admiral Coontz. Do you want me to run down this same line again

and finish it up?

Mr. Kelley. Yes. Admiral Coontz. The tenders to be kept are the Beaver, the Bushnell, the Canopus, the Fulton, the Camden, the Savannah, and the Rainbow.

Mr. Kelley. That is how many of them?

Admiral Coontz. Seven. One ordered out of commission is the Alert, and she went out to China, to my certain knowledge, in 1880. The others are fairly new and fitted for the purpose.

Mr. Kelley. Just about half of this expense is for submarine tenders and half for the destroyers, the way you have it planned for

next year?

Admiral Coontz. Yes, sir.

Mr. Kelley. It seems as though that is quite a lot of money for submarine tenders.

Mr. Byrnes. How many men do you provide for?

Admiral Courts. One thousand eight hundred and eighty-two. Mr. Kelley. You understand that these lists are to be put in all the way down and are to be along the lines already suggested? Captain Williams. Yes, sir. (See p. 216.)

Mr. Kelley. And in each case give the name and the number of the

ship, except as to destroyers, which you can put in a lump. Admiral Coontz. Of course, you know what a submarine tender does?

GUNBOATS.

Mr. Kelley. Yes: I do. We will now take up the gunboats. How many are you going to cut off?

Admiral COONTZ. Quite a number. The Annapolis. Is that the

new Annapolis being built!

Mr. Kelley. It looks like an old fellow.

Admiral Coontz. No; she is gone. The Asheville is the new one spoke of as going to China. There is some mistake about that; her I spoke of as going to China. The Castine date of commission ought to be 1917 instead of 1897. has been sold; the Dolphin has been sold; the Don Juan De Austria has been sold; the Dubuque has been selected for the sale list; the Elegno is to be retained; the Essex is with the Naval Reserves, and the Gopher the same.

Mr. Kelley. Have we not enough Eagle boats for the Naval Re-

serves without using gunboats!

Admiral COONTZ. No. sir; they are all up in your part of the country. The *Helena* is out of commission; the *Isle de Luzon* has been sold; the *Machias* has been sold; the *Marietta* has been sold; the *Monocacy* stays in; the *Nantucket* has been loaned to the State of Massachusetts for a nautical school; the Nashville has been sold; the Newport is used at New York as a nautical school ship, and it does not cost us anything: the Paducah has been assigned to training U.S. N. R. F.: the Palos stays in China in commission; the Pampagna stays in China in commission; the Petrel has been sold; the Quirou

is in China; the Sacramento goes to China and relieves the New ans; the Samar has been sold; the Sandoval has been sold; the sa is being built and will not be completed this year; the Vicks
j is turned over to the Coast Guard by law; the Villalobos is sined in China; the Wheeling is with the Naval Reserves; the Imette is with the Naval Reserve in Chiacgo; the Wilmington is China; the Wolverine is with the Naval Reserve; so is the Yantic; the Yorkton has been sold. Now, here is another case where re is considerable mixture; some of these come in one place and ie in another, and in order to clarify it, I would like to run over se I have missed.

fr. Kelley. Where do we get those?

'ommander Hill. I do not know; they are all tangled up among cellaneous ships; they do not run by anything in the book you e.

Idmiral Coontz. There are very few on this other list. The ton is the receiving ship at San Francisco; the Cheyenne we have dled before; the Chicago we have handled before; the Iowa we e handled before; the Cumberland is out of commission; the ex we have handled before, as well as the Gopher; the Hartford know about; the Hawk is at Milwaukee; the Kearsarge is being verted to a crane ship and will not require any personnel this r; the Monadnock is out of commission at Cavite; we have not n able to get anybody to buy her; the Nantucket is loaned to the te of Massachusetts as a nautical school ship; the Newport is at w York as a school ship; the Constitution is at Newport as a all relic; the Constitution is at Boston as a naval relic; the Oregon t Puget Sound as a naval relic; the Philadelphia is the receiving at Puget Sound; the Reina Mercedes is the Naval Academy tion ship; the Southery is the receiving ship at Portsmouth.

In Kelley, You are not adding to the list you have already

Ir. Kelley. You are not adding to the list you have already

Admiral COONTZ. I have added a few, like the *Hawk*, but I bere that is the only one I have found, outside of the *Boston*, which pear in other lists.

Mr. Kelley. That list is just about the same.

Admiral Coontz. Yes; those gunboats.

NUMBER OF BOATS NEEDED TO TRAIN NAVAL RESERVES.

Mr. Kelley. You have a lot of Naval Reserve boats in there ain, Admiral.

Admiral Coontz. Yes, sir.

Mr. Kelley. How many boats altogether do you think you

int for the Naval Reserves?

Admiral COONTZ. If we answer all the requests we would need out 200, because there is no city of any size or no State that seems have overlooked making a request. I suppose New York alone uld take 30 if we would give that many to them, but we have ught the thing down as low as we can.

Mr. Kelley. And you gave them one?

Idmiral Coontz. We did not give them any destroyers.

fr. Kelley. I mean you gave them one.

Admiral Coontz. No; New York has 13. They are very enthusastic.

Mr. Kelley. They have their Naval Reserve up there?

Admiral Coontz. Yes, sir; Naval Militia and Naval Reserve, but all the militia is in the reserve. Several of the States still keep the Naval Militia as well as the Naval Reserve

Mr. Kelley. How many of this list of gunboats are to be used for

the Naval Reserve?

Admiral Coontrol I had 10.

Mr. Kelley. The Yantic is in the list of gunboats?

Admiral Coontz. She is one of the 10 training naval reservists.

Mr. Kelley. Ten of them? Admiral Coontz. Yes, sir

Mr. Kelley. What ships do you actually want to add to this list. Admiral Coontz. The Hawk, Briar Cliff, Commodore, and Sturgen

Bay.

Colonel ROOSEVELT. The Sturgeon Bay is going to be taken over by the Naval Militia in New York. My belief is that she does not require personnel.

EXPENSE OF STATE NAUTICAL SCHOOL SHIPS.

Mr. French. When they are turned over to the States do the

require any expense

Admiral COONTZ. The nautical school ships do to this extent: The law requires that we shall officer them if they desire it. I think whave one officer on each. At one time we had as many as five Furthermore, we are compelled to put repairs on them. There a only three of them; three States have them. We give each Sta \$25,000, provided it furnishes \$25,000 itself. So the school ship each year cost us \$75,000.

Mr. French. First you loan it and then you keep it in repair?
Admiral Coontz. We do not do it all; from time to time we marepairs. The cost may not exceed \$75,000.

Mr. Kelley. You add four to the list of gunboats that are to

left. Then make up the table in the same way.

Captain WILLIAMS. Yes, sir. (See p. 216.)
Mr. Kelley. About these boats which are in China—the Ashevil you say, is in China?

Admiral COONTZ. She is going to China to relieve the New Orlean

Mr. Kelley. What will you do with the New Orleans?

Admiral COONTZ. Bring her home and sell her.

Mr. Kelley. What list is she on now! Admiral Coontz. We have gone by her.

Mr. Kelley. The Asheville must be quite a ship? Admiral Coontz. She saved us a lot of money.

Mr. Kelley. She is an old ship?

Admiral COONTZ. No. sir: about four years old.

Mr. Kelley. Then, this is a mistake!

Admiral Coontz. Yes, sir.

Mr. Kelley. It should not be 1917?

Admiral Coontz. No, sir; the Asheville was first commissioned 1920.

Mr. Kelley. Where did you get her?

dmiral Coontz. We built her for that purpose.

r. Kelley. And the Helena?

dmiral COONTZ. She is out of commission.

Scretary Denby. If I may say, the Secretary of State has written ng if we could send more ships to China. We can not do it very just now. China is larger than the United States and it is on r great rivers where they have the disorders and troubles, that e patrol vessels are necessary.

r. Byrnes. What about the Sacramento and the Albany?

dmiral Coontz. The Asheville and Sacramento go out to relieve two ships, Albany and New Orleans.

Ir. Kelley. Does the Paducah go out there?

olonel ROOSEVELT. That is the one that goes to the Minnesota

Ir. Kelley. You will not need much personnel on her?

blonel Roosevelt. No, sir.

dr. Kelley. As far as personnel is concerned, that might be left

Idmiral Coontz. Yes, sir.

Ir. Kelley. The Sacramento goes out to China?

dmiral Coontz. Yes, sir.

Ir. Kelley. What will be the personnel required for the ships in the gunboat class with these four to be added, the Hawk, the ir Cliff, the Commodore, and the Sturgeon Bay? There are 22 of e, and 9 of them are naval reserve vessels which will not require th personnel. That would leave 14 that would require full onnel and 9 naval reserve vessels.

aptain Williams. It is estimated that the vessels will require 0 men, but the exact figures will be found in the table. (See 216.)

TRANSPORTS.

r. Kelley. Now the transports? dmiral Coontz. The Ancon, long since gone; the Antilles, same: rles, same; Eten, same; Finland, same; Floridian, same; General va, Chinese waters; Great Northern, gone; Hancock, station ship Honolulu; Harrisburg, gone; Henderson, in service; Kentuckiar, e; Lenate, gone; Louisville, Mallory, gone; Manchuria, gone; ica, gone; Matsonia, gone; Maui, gone; Mongolia, gone; Northern Pacific, gone; Orizaba, Pastores, gone; Populan, gone; Portnern Pacific, gone; Ortizada, prices, gone; Paysandu, gone; Plattsburg, gone; Puritan, santa Ana, gone; Santa Cecelia, gone; Santa Clara, gone; Lena, gone; Santa Eliza, gone; Santa Malta, gone; Santa t. gone; Santa Teresa, gone; Shoshone, gone; Siboney, gone; ra, gone; Sol Navis, gone; South Bend, gone; Saint Paul, gone; adores, gone; Troy, gone; Wilhelmina, gone; and Yale, gone. find that we have now to add to make this table absolutely corfive transports, of which the Heywood is not yet under con-

r. Kelley. Do not bother with that.

Imiral Coonty. That reduces the remainder on this list to four.

. French. There are only two on the list you read.

. Kelley. General Alava, Henderson, Hancock, Argonne, and imont?

Admiral COONTZ. We have now 12 transports and cargo vessels. There is something the matter with these tables.

Colonel ROOSEVELT. I would hardly put the General Alava in with

the transports.

Admiral Coontz. She belongs to the Chinese gunboats.

Captain WILLIAMS. Those four will take 887 men. Admiral COONTZ. And the General Alava 54 men?

Captain WILLIAMS. Yes, sir.

Admiral Coontz. That would be added to the 887?

Captain WILLIAMS. No, sir; included in it.

Mr. Kelley. This list of transports will be brought into a table just like the others?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. It might be useful to know just why you need these four transports.

Captain WILLIAMS. All right, sir.

Mr. Kelley. There is something in the President's message about using the Shipping Board to carry where you can do it more economically.

Colonel ROOSEVELT. That has been gone into very carefully and

we cooperate wherever we can.

Admiral Coontz. This is an important matter coming at this time. We have several thousands of men in the Dominican Republic: we have people in Haiti. I believe we have 1,000 men.

Secretary Denby. About 2.000.

Admiral Coontz. We have people at the Virgin Islands; we have them in Guam, we have them in the Philippines, we have them at Samoa. We have moved the majority of our fleet from the Atlantic to the Pacific. It is cheaper to take the passengers allowed transportation by law, families, by transport than by rail. We also carry cargo on these transports. Up to recently we had only one good one, the Henderson. Recently, when the Henderson happened to be away, and we were suddenly called upon to send, within 12 hours. a large number of troops to the Isthmus of Panama, when the trouble existed between Costa Rica and Panama, we had to pile them on a We had all sorts of trouble. We have some very poor battleship. transports and some very small ones. Now, we are cleaning up our stores and we find them very necessary. If we could get commercial transportation to do it we would be very glad. These transports are necessary for our people who are now scattered in so many outof-the-way places. We have to look out for them and we find it a necessity.

Mr. Kelley. Where do these boats run?

Admiral Coontz. Some of them run from San Francisco, and on this coast they have run mainly from Norfolk and Charleston.

Mr. Kelley. To where!

Admiral Coonty. They go to every point in the Dominican Republic and Haiti, and, if necessary, to the Virgin Islands. Then they also touch at Guantanamo.

Mr. Kelley. At the present time which are on the Pacific?

Admiral COONTZ. The Argonne and Chaumont are on the Pacific and the Henderson and the smaller ones are on the Atlantic. Another thing about the cargo vessels is that we can not hire commercial ves-

s to carry our ammunition or gasoline or explosives; they do not ĭt.

Mr. Kelley. The Army has transports which would carry the wder ?

Admiral Coontz. No, sir; they can not carry sufficient.

Colonel ROOSEVELT. I might say for the record that the Army, wy, and Shipping Board have all recently endeavored to coordite the situation.

Mr. Kelley. Did we have any transports before the war?

Admiral COONTZ. Yes, sir. We had the Buffalo, Prairie, and incock.

Mr. Kelley. They were smaller than the ones referred to?

Admiral Coonty. No, sir; the Buffalo is a very good affair, 6,680 ns. and makes 14 knots regularly. I served on her myself. She uld carry quantities of freight.

Mr. Kelley. I suppose your needs for the Orient will be just about

e same as before the war?

Admiral Coontz. The needs there, I should say, will be a little eater on account of the larger fleet in China.

Mr. Kelley. Please put these ships in. Captain WILLIAMS. Yes, sir. (See p. 216.)

SUPPLY SHIPS.

Mr. Kelley. The supply ships come next.

Admiral Coonty. Supply ships, I would like to run down as before. ridge is to be retained in commission; Celtic is to be relieved by the ensacola and go out of commission.

Mr. Kelley. Where is the Pensacola now?

Admiral Coontz. At Mare Island.

Mr. Kelley. No; on what list? Admiral COONTZ. I do not see her here.

Mr. Kelley. The Celtic goes out?

Admiral Coontz. Yes, sir. The Culgoa is also on the sales list.

Mr. Kelley. You do not want that ship next year?

Admiral Coontz. No, sir. The Glacier has been ordered out of mmission to be sold. The Supply has been sold. I have here to ld to this list these names of store ships. The Pompey, out of comission at Cavite, to be sold.

Mr. Kelley. Put her down.

Admiral Coontz. The Rappahannock and the Arctic.

Mr. Kelley. Just three supply ships?

Admiral Coontz. Yes, sir.

Mr. Kelley. How many men will those take?

Captain WILLIAMS. Six hundred and forty-five men.

Mr. Kelley. Just make a short statement about the need for

ose ships?

Admiral COONTZ. Those are ships we have always used in the IVV and we had them before the war. The Celtic, Culgoa, and the acter we had in 1898. They carry provisions, food, ice, frozen ef. etc. We have reduced them down now to just three ships.

Mr. Kelley. Where will they be located mostly?

Admiral COONTZ. The chances are that there will be one with each et. with one available to go either place or to carry provisions. metimes we can buy much cheaper on one side than on the other.

HOSPITAL SHIPS.

Mr. Kelley. We now come to the hospital ships.

Admiral COONTZ. We expect to retain two in commission, the Relief and the Mercy. The others I never heard of. The Repose has been sold. The Solace is out of commission. The South Port and the Sea Gate, I never heard of them.

Mr. Kelley. The Mercy and Relief are to remain in commission?

Admiral COONTZ. Yes, sir.

Mr. Kelley. One with each fleet, probably?

Admiral Coontz. Yes, sir.

Captain Williams. Seven hundred and nine men. Mr. Kelley. Please put in a table showing that.

Captain Williams. Yes, sir. (See p. 216.)

FUEL SHIPS.

Mr. Kelley. We now come to the fuel ships?

Admiral Coontz. The Abarenda is in commission now but will some go out of commission; she is to be relieved. The Ajax is out of commission. The Alameda is to go out of commission and be sold. The Arethusa is to be retained. The Robert L. Barnes is to be retained. The Brazos is to be retained: the Brutus is to go out of commission; the Caesar is to go out of commission; the Cuyama stays in; the Hector has been wrecked; the Jason is with the Pacific Fleet; the Kanawha remains in commission; the Kawah is to go out of commission: the Langley has been turned into an aircraft carrier; the Laramie goes out of commission; the Mars goes out of commission to Norfolk; the Mattole not to go in; the Maumee is to go out d commission; the Nanshan is to be sold; fuel ship No. 17 (ex-Natches) is not to go into commission; the Neptune goes out of commission; the Nereus remains in commission; the Nero has been sold; the Orion stays in commission; the Patoka stays in commission; the Proteus stays in commission; the Ramapo stays in commission; the Rapidan goes out of commission; the Salinas goes out of commission; the Sapelo remains in commission; the Sarah Thompson remains in commission; the Saturn goes out of commission; the Sterling has been sold; the Trinity stays in; the Vulcan is already out of commission.

The result of that statement is 4 colliers remain in commission and 10 oilers, a total of 14. The others are to go out of commission.

Mr. Kelley. Four oilers and ten colliers?

Admiral Coontz. No, sir: 4 colliers and 10 oilers remain in commission.

Mr. Kelley. Now, have you the number of men?

Captain WILLIAMS. One thousand and seven for the oilers and 656 for the colliers.

Mr. Kelley. How many colliers have you in commission now? Admiral Coontz. Five.

Mr. Kelley. And you are taking one out?

Admiral Coontz. Yes, sir.

Mr. Kelley. How many oilers are in commission now?

Admiral COONTZ. Twenty.

Mr. Kelley. And you will take out 10?

Admiral Coontz. Yes, sir. In a case like that we are taking

Mr. Kelley. You can make the same table in this connection and **sert** it at this point.

Captain WILLIAMS. We will do so. (See p. 216.)

MINE SWEEPERS.

Mr. Kelley. The mine sweepers are next.

Admiral Coontz. We have there a vast collection of all sorts of nips. They are all put down here under the head of mine sweepers. Mr. Kelley. I presume they were used for that purpose during le war?

Admiral Coontz. Yes, sir.

Mr. Kelley. There is a large list of them there, and it seems to ie they might go the way of the Eagle boats, into cold storage. equired this whole list during the war?

Secretary Denby. Yes.

Mr. Kelley. They do run into a lot of money.

Admiral Coontz. We have 49 that have to be handled, and in rder to get at them we will have to get the names.

Mr. Kelley. Suppose you give the names of the ones you propose

) keep.

Admiral Coonty. I will run over the list: The Anderton is gone; ne Avocet goes out of commission; the Auk is out of commission; ne Bellows is gone; the Bittern will be retained; the Bobolink will be etained; the Bouker is gone; the Brant will be retained; the Cahill gone; the Cardinal we will retain; the Carola is gone; the Challenge ill be retained; the Chewink will be retained; the J. Alvah Clark is one: the James H. Clark is gone; the Comber is gone; the Coney is one: the Conestoga is gone; the Cormorant will be retained; the courtney is gone; the Crawford is gone; the Crest is gone; the Curlew ill be retained; the Douglass is gone; the Dreadnaught is out of mmission; the Easthampton is gone; the Edwards is gone; the Eider out of commission; the Falcon will be retained; the Favorite is gone; ie Finch will be retained; the Flamingo is out of commission; the oam is gone; the Freehold is gone; the Gallup is gone; the Gannet ill be retained; the Garner is gone; the Genesee will be retained; ie Genevieve is gone; the Goliath is gone; the Goshawk is gone; the rebe is out of commission; the Gypsum Queen is gone; the Henlopen gone: the *Heron* is out of commission; the *Hinton* is gone; the *ubbard* is gone; the *Ibis* is gone; the *James* is gone; the *Kingfisher* ill be retained; the Knickerbocker is gone; the Lapwing is out of mmission: the Lark will be retained; the Lewes is gone; the Long land is gone; the Lowell is gone; the Luce Brothers is gone; the *ikens* is to go out of commission; the Mallard will be retained; the Tansfield is gone; the Edward J. Mc Keever is gone; the Stephan W. 'c Keever is gone; the McNeal is gone; the Mendota will be retained; e Messick is gone; the Nahant is gone; the Oriole is out of commison: the Osborne is gone; the Osprey is out of commission; the Owl in commission; the Ortolan will be retained; the Palmer is gone; the urtridge will be retained; the Pelican is out of commission; the acock is gone; the Penguin will be retained; the Penobscot is gone;

the Pigeon is out of commission; the Plover is gone; the Pontiac i gone; the Quail will be retained; the Rail will be retained: the Range is gone; the Raven is gone; the Redwing is out of commission: Resolute is gone; the Robin will be retained; the Sadie Ross is gone the Shenandoah is gone: the Spartan is gone; the Spray is gone the Starling is gone; the St. Co. No. 2 is gone; the Peter C. Struck is gone; the Surf is gone; the Sussex is gone; the Swallow will be retained; the Swan is out of commission: the Sanderling is out commission, the Sandpiper will be retained; the Sappho is gome the Sea Gull will be retained; the Sea Rover is gone; the Taniyer wi be retained; the Thrush is out of commission; the Teal will be retained the Turkey is out of commission: the Tern will be retained: the Undaunted will be retained: the Victorine is gone: the Vireo will be retained; the Warbler is gone; the Whipporwill will be retained: Widgeon is out of commission; the Willet is gone; and the Wooded is out of commission. Our table shows 49 as the number remaining Those are the mine sweepers, and I think we had better give it in summary statement. Of the 49 that are left, 2 are out of commission to be transferred to the Coast and Geodetic Survey: 3 are loaned to the Shipping Board-

Mr. Kelley (interposing). You are talking of all these craft here

Admiral Coontz. I am talking about the 49 that are left.

Mr. Kelley. After eliminating all of those that you have temporarily disposed of?

Commander HILL. In that same list there is a number of fleet to

mixed up with them.

Mr. Kelley. We will take up the 49.

Admiral Coontz. Two are out of commission to be transferred to the Coast and Geodetic Survey.

Mr. Kelley. They would not be out of the 49?

Admiral Coontz. Yes, sir.

Mr. Kelley. Then, 49 would be what is left?

Admiral COONTZ. Out of the 49, 3 are loaned to the Shipping Board Mr. Kelley. There are two out of commission and three are loane to the Shipping Board!

Admiral Coontz. Yes, sir. There are 10 more to go out of con

mission, leaving 34, and there are 5 with the Atlantic Train.

Mr. Kelley. You have the number down to 34. Are there are more to go out?

Admiral Coontz. There are 4 more to go out of commission, 2 i

the Pacific and 2 in Asiatic waters, leaving 30.

Mr. Kelley. There are only 30 mine sweepers in commission?

Admiral Coontz. No. sir.

Mr. Kelley. How many tugs are included in this list of 40? Admiral Coontz. Twenty-six of this outfit are mine sweepers.

Mr. Kelley. Then, you will further reduce the 49 to 26?

Admiral Coontz. Yes, sir.

Mr. Kelley. There are no tugs included in the 26?

Admiral Coontz. Yes, sir; there are.

Mr. Kelley. Why can we not lay up all these boats for a year? Admiral Coontz. We have got to keep 10 of them in commission for practice as mine sweepers. We would be badly deficient if a webroke out and we did not have them. We have cut the number down to 10.

Mr. Kelley. You will cut this whole thing to 10?

Admiral Coontz. The number of mine sweepers goes to 10. have some tugs in there that I would like to take up somewhere else.

The mine sweepers themselves come down to 10.

Mr. Kelley. You will furnish a list covering the mine sweepers? Admiral Coontz. We have 5 as seaplane tenders, 2 for submarine **balvage**, and 1 that the Bureau of Ordnance is using for experimental We will need 26 out of this whole number.

Mr. Kelley. Including 10 mine sweepers?

Admiral Coontz. Yes, sir.

Mr. Kelley. Captain Williams, you will put in a list covering the **20** mine sweepers?

Captain WILLIAMS. Five hundred and forty men are required for

the 10 mine sweepers.

Mr. Kelley. The other 16 will be put in cold storage, so that they

will require no men.

Admiral Coontz. Yes, sir, that is true. We will have to straighten this list out in regard to the tugs.

Mr. Kelley. There are some tugs on this list?

Commander Hill. Yes, sir; there are some seagoing tugs.

Mr. Byrnes. What becomes of the 16 vessels? Admiral Coontz. They will be disposed of later on.

Mr. Kelley. Let me see if I have this straight: This list, when I ret it, will contain the names of 10 mine sweepers, or tugs, or whatever hey may be?

Admiral Coontz. Yes, sir.

Mr. Kelley. Vessels that will be used for mine-sweeping pur-

Admiral Coontz. Yes, sir.

Mr. Kelley. There will be a balance of 16?

Admiral Coontz. Yes, sir, and we will come to them later. Mr. Kelley. We have the number down to 26, and there are 16 hat are to be accounted for under some other heading?

Secretary Denby. Yes, under fleet towing vessels.

Mr. Kelley. These 10 mine sweepers require 540 men?

Captain WILLIAMS. Yes, sir.

Admiral COONTZ. I would like to state at this point, Mr. Chairman, hat we have had time to straighten this out during the lunch hour, and the total number of those that we had checked or which should e checked is 30.

Mr. Kelley. Thirty instead of 26?

Admiral COONTZ. Yes, sir. Some of them should appear in another place under the head of fleet tugs. Thirty is the number to be etained.

Mr. Kelley. For mine sweepers?

Admiral Coontz. No, sir; 10 are mine sweepers, 12 are fleet towing ressels, and 8 are tugs.

FLEET TOWING VESSELS.

Mr. Kelley. Suppose you cover them separately in the table. Tell us about the necessity for 16 fleet towing vessels.

Admiral Coontz. The fleet towing vessels are divided up, five for each fleet. At the present time we have 15, and we will reduce that number to 12 by the 1st of July. Those are vessels of ab 1,000 tons and they are oil burners. They tow targets and do gene towing work about the fleets. They perform all sorts of tow operations, and they are more economical than large vessels. The carry on an average 45 men each. They are useful in laying (ranges, laying down buoys, taking up buoys in harbors, and in we of that character. We have used them for a long time, and find the very essential and of very great assistance to the fleet. They economical on account of their small size.

Mr. Kelley. How many did you have before the war?

Admiral Coontz. I will have to look that up, because it may that before the war we used battleships to tow, which was not ve economical.

Mr. Kelley. These mine sweepers and fleet towing vessels for t first quarter of this year cost \$1,481,264.

Admiral Coontz. The number of mine sweepers has been may

rially reduced.

Mr. Kelley. What about the balance of this year?

Admiral Coonty. We have to use the fleet towing vessels with fleet for the balance of the target practice, and I doubt if much be saved before the end of the year in getting them out of commissi

Mr. Kelley. At the present time you have 65 vessels of t character in service, and you propose to reduce the number to 26

Admiral Coontz. No, sir; there is something wrong there. page 122 we find 49 vessels in commission, and we are reducing t number to 30.

Mr. Kelley. Four are to be taken out of this list and put ur tugs?

Admiral Coontz. Yes, sir.

Mr. Kelley. We will see whether we will keep them there or You will make a list of the mine sweepers, showing the present c plements and the number in the complement you are proposing next year.

Captain Williams. I will do so. (See p. 216.)

Mr. Kelley. I do not suppose any of these were in existence

Captain WILLIAMS. No, sir; there may have been some tugs. want that data for all classes!

Mr. Kelley. We want it first for the mine-sweeping vessels then for the fleet towing vessels. They will aggregate 26 in the

Captain WILLIAMS. Yes, sir.

Secretary Denby. Leaving four to be accounted for.

Mr. Kelley. There will be four to go over among the tugs.

CONVERTED YACHTS.

Mr. Kelley. We have here a list of the converted yachts. Admiral Coonty. The Actus is out; the Adelant is out; the Adi dack is out; as for the first Admiral, we will put a question n there for the present; the second Admiral is out; the Advance is the Alleen is out; the Akela is out; the Alaska is out; the Alcedo is the Amagansett is out; the Aphrodite is out; the Arcady is out; Arctic is out; the Arcturus is out; the Ardent is out; the Atlant

ut; the Aurora is our; the Aztec is out; the Barnegat is out; the carnett is out; the Bauman is out; the Bella is out; the Berkshire is ut; the Bradley is out; the Breakwater is out; the Albert Brown is ut; the Calumet is out; the Cambridge is out; the Caswell is out; the Thesapeake is out; the Cristobal is out; the Corona is out; the Corsair s out; the Courier is out; the Cytheria is out; the Dantzler is out; the Dempsey is out; the Despatch is out of commission; the Dorothea s out; the Druid is out; the Eagle is out; the Emeline is out; the Florence is out; the Galatea is out; the General Putnam is out; the Houcester is out: the Guinevere is out; the Harvard is out; the Hauoli s out; the Hawk is in; the Helenita is out; the Herreshoff No. 306 is out; the Herreshoff No. 398 is out; the Herreshoff No. 321 is out; the Herreshoff No. 323 is in; the Isabel is in; Johnson out; Joyance out; Kajeruna out; Kwasind out; Legonia No. 2 out; Lydonia out; Machi-Manne out; Manne out; Manne Hatta out; Margaret out; May out; Mary Alice out; Mayflower in; McLane out; Merchant out; McClellan out; Merritt out; Montauk out; Nahma out; Narada out; Narragansett out; Naushon out; Niagara ordered out of commission; Nokomis in; Noma out; Nonpareil out; Old Colony out; Onward out; Owera out; Parthenia out; Patchogue out; Philips out; Piqua out; Pocomoke in; Porpoise in; Postmaster General out; Priscilla out; Raleigh out; Rambler out; Remlik out; Roamer out; Rodgay out; Samoset out; Santee out; Sapphire out; Satelite out; Satilla out; Scorpion in; shadyside in; Shuttle out; Sialia out; Springfield out; S. P. 117 out; '. P. 237 out; S. P. 247 out; S. P. 328 out; S. P. 406 out; S. P. 427 ut; S. P. 467 in; S. P. 507 out; S. P. 524 out; S. P. 582 out; S. P. 99 out; S. P. 838 out; Sultana out; Sylph in; Sylvia out; Tramp it; Vedette out; Vega out; Venetia out; Vergana out; Vixen in; acondah out; Wadena out; Wakida out; Wanderer out; Wasp out; enonah out; Winchester out; Xarifa out; Yacona out; Yankton t; Zara out; and Zoraya out. That leaves in, I think, about seven. Mr. Kelley. There are none to add to that from any other list? Admiral Coontz. No, sir. I thought it might be advisable to put wn the total here because there will be four of them that are left. Secretary DENBY. There are the Scorpion, Mayflower, and Sylph; u have three right there.

Colonel Roosevelt. The Vixen, the Sylph, Shadyside, Scorpion,

Mr. Kelley (interposing). Suppose you start with the first one it is left, the Advance.

Admiral Coontz. The Advance is a district craft and we will come her later on, and the Hawk we have already counted; the Herres-7 No. 323 is in a districts somewhere; the Isabel is in China; we it her there at the request of the State Department; the Niagara, I said, is ordered out of commission; the Nakomis is at Santo mingo; the Pocomoke is a district craft and so is the Porpoise; the rpion is a station ship at Constantinople; the Shadyside is a trict craft; the S. P. 467 is a district craft; the Sylph is here in shington, and the Vixen is at the Virgin Islands.

Mr. Kelley. How many men will those 13 vessels take? Admiral Coontz. There will be only seven on this list—the Scorpion, komis, Vixen, Mayflower, Sylph, and the Isabel. Mr. KELLEY. Do you have in mind another one?

Admiral Coontz. Yes, sir; is that what you have?

Captain WILLIAMS. I have the Scorpion, the Nakomis, the Viun, the Mayflower, the Sylph, and you said the Isabel.

Admiral Coontz. Making six.

Captain WILLIAMS. Yes.

Mr. Kelley. And the other seven will not appear in this list but are transferred to the district craft?

Admiral Coontz. Yes, sir.

Mr. Kelley. You will make a list of those six vessels with the proper tables, showing the information we want?
Captain WILLIAMS. Yes, sir. (See p. 216.)
Secretary DENBY. I think the title "yachts" is misleading.

Mr. Kelley. What would you suggest?

DUTIES AND LOCATION OF YACHTS.

Secretary Denby. They are naval vessels and I would put them where they belong. The President's yacht and the station yacht are here at Washington; I do not mean yachts but vessels; I do not like the word "yacht."

Mr. Kelley. But they are in the nature of yachts.

Secretary Denby. Yes; but the Mayflower was bought 20 years ago and she is not a converted yacht; the Sylph was originally to vacht. A vacht sounds like a luxury, which does not exist in the Navy, and if they could be called vessels it would be better.

Mr. Kelley. Congress is very willing to provide for the President's

vacht.

Captain Williams. We carry them as special-duty craft.

Secretary Denby. That is good. Mr. Kelley. That is all right.

Secretary Denby. I merely thought the word yacht did not belong there.

Mr. Kelley. I do not think it makes very much difference.

Secretary Denby. They are not pleasure yachts and that is what I am getting at. The Nakomis is simply a station ship at Santo Domingo: the Isabel is doing patrol work in China, and the Sylph is used as a station ship here in Washington; it is used by the President and by the State Department in carrying representatives of foreign Governments, and it certainly does not constitute a yacht.

Mr. Kelley. There is no disposition to question the use of them. Secretary Denby. I simply wanted to straighten out the names of

these ships.

Mr. Kelley. I think perhaps it might be well to make a statement for the record showing what the vessels are for.

Mr. Oliver. What do I understand the Secretary suggests?

Mr. Kelley. He suggests calling them special-duty craft, so that Captain Williams in making his tables can put them in as special-

duty craft.

Admiral Coontz. The Mayflower, a converted yacht of the seagoing type, is in service as a vessel for the President's official use; the Sylph, a small converted yacht suitable for service in inland waters, is used as a Navy Department tender for use by the department in the transportation by water to points on the Potomac River and Chesapeake Bay of the United States and foreign officials on official duty and ceremonies, and, incidentally, occasionally used by the Secretary.

Secretary Denby. And for the official use of the Secretary of the

Navy.

Mr. Kelley. I do not think there is any desire to criticize the use

of any of these vessels.

Admiral Coontz. The Nokomis is used in the Dominican Republic, with headquarters at Santo Domingo city. It is a part of the naval force of the United States forces occupying the Dominican Republic and is under the orders of the military governor. It is also used by the governor in the transportation of personnel and material between garrisons at coast points in the Dominican Republic in connection with the military occupation. The Vixen is at the naval station, St. Thomas, Virgin Islands. It is used as a station vessel and houses the naval personnel attached to the small naval station at St. Thomas, and incidentally, furnishes a means whereby the governor, a rear admiral, United States Navy, who is also commandant of the naval station, can visit frequently the other islands of the group in connection with his duties. The Scorpion is employed as station ship at Constantinople. She is what is commonly known as the stationaire and was formerly used by the ambassador to Turkey in that service. She is now flying the flag of Rear Admiral Mark Bristol, United States Navy, United States high commissioner to Turkey, who is also in command of the United States naval force n Turkey. It has been the practice to have this vessel there for The Isabel is in use as the flagship of the commander nany years. f the naval forces on the Yangste River, China; he has a large umber of gunboats under his command, and each nation carries a ag officer in a similar position there, and the British have a vice

Secretary DENBY. It is called the Yangste patrol.

TUGS.

Mr. Kelley. Now we come to the tugs.

yomo in; Standish out; Sunnadin in; Tacoma out; Tadousac out; Tatnuck out; Tavernilla out; Tecumseh ordered out of commission; Tillamook in; Tinicun out; Traffic ordered out of commission; Transfer in; Triton in; second Triton out; Tug No. 40 out; Tug No. 41 out; Tug No. 48 out; Tug No. 46 ordered out of commission; Tug No. 48 ordered out of commission; Tug No. 48 ordered out of commission; Tug No. 49 in; Tug No. 50 in; Tug No. 51 ordered out of commission; Tug No. 52 ordered out of commission; Tug No. 53 ordered out of commission; Tug No. 54 in; Tug No. 55 ordered out of commission: Tug No. 56 in; Tug No. 57 ordered out of commission; Tug No. 58 out; Tug No. 59 out; Tug No. 60 out; Tug No. 61 in; Tug No. 62 ordered out of commission; Tug No. 63 ordered out of commission: Tug No. 64 ordered out of commission; Tug No. 65 ordered out of commission: Tug No. 67 ordered out of commission; Tug No. 68 in: Tug No. 69 in: Tug No. 71 out: Tug No. 72 out; Tug No. 73 out: Tug No. 74 out: Tug No. 75 out: Tug No. 75 out: Tug No. 75 out: Tug No. 76 out: Tug No. 76 out: Tug No. 77 No. 76 out; Tug No. 77 out; Tug No. 78 out; Tug No. 79 ordered out of commission; Tug No. 80 ordered out of commission; Tug No. 81 in; Tug No. 82 ordered out of commission; Tug No. 83 ordered out of commission; Tug No. 84 ordered out of commission; Tug No. 85 out; Tug No. 86 in; Tug No. 87 in; Tug No. 88 in; Tug No. 89 in; Tug No. 93 out; Tug No. 94 out; Tug No. 95 out; Tug No. 97 in; Tug No. 98 in; Tug No. 99 in; the Umpqua in: the Unadilla in; the Uncas ordered out of commission; the Vigilant in; the Wahneta in; the Wandank in; the Wando in; the Wicomico in; the Wompatuk in; the Wooley in, and the Yuma in.

Mr. Kelley. That makes how many tugs in? And there are four

more to come out of that other list and go in here?
Admiral Coontz. Yes, sir.

Mr. Byrnes. There are 78 in, as I counted them.

Mr. Kelley. And four added.

Mr. Byrnes. No: I did not add four.

Admiral Coonty. The correct number is 73; 23 plus 50.

Mr. Kelley. Including the four from the other list?

Admiral Coontz. Yes, sir.

Captain WILLIAMS. And some that appear on another miscellaneous list besides.

Admiral Coontz. But not to be counted here; the total is 23

plus 50.

Mr. Kelley. Why do you divide them in that way?

Admiral COONTZ. Twenty-three are seagoing and the others are of the other kind.

Mr. Oliver. Would it not be helpful if Admiral Coontz in revising his statement, should set out the number that are in and state that all the others are out, giving the number!

Admiral COONTZ. I can do that.

Mr. OLIVER. Instead of following one after another and saving in

and out, just set out the number.

Mr. Kelley. Probably it would be just as well to put in a table saying, "The following tugs are in," and "The following tugs are out."

Secretary Denby. Those that are in and those that are out.

r. Kelley; Yes, and I think Mr. Oliver's suggestion is a very d one.

dmiral Coontz. I will have to tell you that we had to do this in a

ry last night, and the final figures are 23 and 50. Ir. Kelley. You have in mind the suggestion made by Mr. Oliver, t you simply insert a table showing that the following tugs are in the following tugs are out?

dmiral Coontz, Yes, sir. (See p. 216.)

Ir. Kelley. And, Captain Williams, you put in a table giving number of men and how many men you estimate?

'aptain Williams. I have not the personnel subdivided that way; y are of different sizes and different sorts and their complements y from 5, 15, and 25, so that I would rather insert it later.

Ir. Kelley. Can you not give us an idea of it now?

Captain WILLIAMS. About 2,800.

Mr. Kelley. That would average 40 men on a tug.

Commander LEAHY. There are 73 tugs.

Mr. Kelley. But they would not average 40 men? Commander Leahy. Some of them are seagoing tugs.

Captain Williams. It would be less than 30.

Mr. Kelley. We will say 2,000 as a guess and the table will show e actual number on each one.

Captain Williams. Absolutely. (See p. 216.)

Mr. Kelley. Now, Admiral Coontz, how many tugs did we have fore the war?

Admiral Coontz. I suspect we had almost that number, sir; but vill have to verify that. There were 49 listed in 1916.

Mr. Kelley. What have you to say about that, Mr. Reed?

Mr. REED. There are 49 on the list.

Mr. Kelley. The fleet tugs, I suppose, are used for the large ps mostly, are they not?

DUTIES OF TUGS.

Idmiral Coontz. If you have five minutes I would like to read a ter on that because I think it is very important. It sounds big en you say we have 200 naval stations, but I do not think it is big after all. This seems like a large number of tugs, but I would t like to read what the commandant at Philadelphia says, in ler to give you an idea what those tugs do.

Ir. KELLEY. Can you not paraphrase it so as to boil it down?

Ir. OLIVER. I think that might be important.

fr. Kelley. Very well; go ahead. Idmiral Coontz. (Reading:)

In general the various types of district craft consist of—

) Regular seagoing tugs. Smaller harbor tugs. Freight-lighter tugs.

Fuel-oil barges.

ese are the only type of craft which require personnel constantly on board for

Seagoing tugs assigned to the district as such are ocean-going tugs used for heavy g on long distance ocean trips, such as to Panama; for salvage and rescue work in use to SOS calls from vessels in distress in the vicinity; for radio compass calin work; and for shorter interdistrict towing. In the Philadelphia district, for ole, there were two of these tugs, one of which was always stationed at Cape May

ready for emergency work with distressed shipping around the Capes of the Delawar Numerous and frequent calls have been made upon these craft; they have responde readily and have many times over saved not only the cost of their operation, by probably the cost of the tug itself in its salvage work with naval and merchant vessel around their station in periods of distress due to weather or accident. In the par these tugs have fully justified themselves, but one has been withdrawn to reduce expense.

The department ordered one of those taken out.

3. Harbor tugs are a smaller type of craft and are part of a navy-yard equipment but are nonseagoing and are built for operating on inland waters. Their use is confined to the movements of shipping of all kinds around the water fronts at the yard for the purpose of berthing for repairs, in case of fire along the water front, or in emergency in bad weather, all of which work would have to be done by civilian tugs,

provided they were available when needed.

4. Lighter-tugs are in effect combined freight barges and tugs carrying their own propelling machinery. These tugs are particularly valuable and useful in transferring stores, supplies, and provisions in large quantities from shore bases to ships of the fleet in the vicinity of navy yards, naval bases, or stations. Their carrying capacity as to freight is very much larger in every way than any of the two foregoing. craft, but their seaworthiness and handiness as maneuvering craft for other vessels are quite separate and distinct and not so good as the other craft.

5. Fuel-oil barges are in effect small self-propelled, slow-moving oil-tank steamen about the size of a tug, and are used to transfer oil from local oil centers or from many

yards or stations or civil sources of supply to the fleet or to the yard using them.
Their work is quite separate and distinct from any of the foregoing tugs.

6. The question of the reduction of the number of local craft in the district has been given very careful consideration and the number of these craft has been considerably reduced, and, in fact, in some localities has been cut in half. When it comes to the question of the entire elimination of these craft and substituting therefor civilian tugs hired for the occasion, there are several factors which must be taken into consider-

Mr. Kelley. We do not want to hire any tugs.

Admiral County. We made an analysis of the cost of maintaining the tugs, and it came to 50 per cent more by the use of civilian personnel, and he actually analyzed the figures to determine whether the fuel oil barge should be laid up, and finally he came to the con

Unless the Government is willing to carry its own insurance on vessels at a yard c loss from fire or storm, a minimum number of tugs should be maintained, and th cost of these manned by naval crews is 55 per cent less than commercial tugs on tl

In other words, they put out fires. Now, in this connection would like to call your attention to two facts: You have not read any large fires in navy yards for a long time, and it has been sor time since you have read of any great disasters on either of ot coasts. That is because we get out and help these people when v have a boat there. Also, the radio station which we maintain New York allows those fellows to know where they are in a fog or any other time. They now come up the Ambrose Channel withou any difficulty. Of course, all of this costs money, but I do not belied we have too many of these boats, considering the services they rende As I have said, this looks like a big number, but you must rememb we had 49 before the war. The boats we have are busy all the time but there is no overtime about them. They were formerly mann by civilian crews, and when it came to half past four they quit are there was a call for overtime, so that we had to come to this, and v feel it was the best thing to do.

Mr. Kelley. Have you had a survey of any kind made as to t

number of hours the tugs were used?

Admiral COONTZ. Yes, sir.

Mr. Kelley. About what proportion of the time are they used? Commander Hill. We picked two weeks at random; they did **not** know what weeks we were going to pick, and we told four districts to analyze what their tugs did during those weeks and compare the charges with civilian tugs, to ascertain what would be the charge against naval tugs and the actual cost of the personnel and everything of that kind. Now, here are figures as to tugs in the third district of New York-

Mr. Kelley (interposing). The only question we want to determine is whether or not we have too many for the service they are

called upon to render.

Admiral Coontz. I do not believe we have, because in pursuance of the Secretary's orders to try to cut out 10,000 men I have just used the ax on them and we have gotten down to this.

Mr. Kelley. How many have you now?

Admiral Coontz. I read all of those that went out of commission as I went down the list, and there were 73 left.

Mr. Byrnes. And you propose to keep those 73? Admiral Coontz. Yes, sir.

Mr. Kelley. And that is the number you now have?

Admiral Coontz. No, sir; we have more than that now, but they are going out of commission; I must have read 30 or more that went out of commission in the last month.

Mr. Kelley. You think you have something like 100 now in

commission?

Admiral COONTZ. Yes, sir.

Mr. OLIVER. What is the greatest number of tugs you maintain at any one station?

Admiral Coontz. It is probably at New York.

The highest number was 118 before we began to cut. Then we

reduced the number to 102.

Mr. Byrnes. It is better to keep your tugs with the crews as long as you have enough work to demand the services of the tugs, but if you have tugs at some place where there is not sufficient demand for them to occupy all their time, it might be better then to hire a tug ?

Colonel ROOSEVELT. Yes, sir.

Mr. Byrnes. That is what you are doing?

Colonel ROOSEVELT. Yes, sir.

Admiral Coontz. Another thing, these tugs are there during the day and night every day in the year and are ready for a fire or anything which turns up. Here are the reports from all the districts skinned down to the lowest limit that we feel safe.

Mr. Kelley. It appears that you have 118 tugs the first three

months of the year, at a cost of \$1,145,295.

Admiral Coontz. Yes, sir. They have been reduced from 118 to 102, and now for next year to 73.

STATEMENT SHOWING ALLOCATION AND COMPLEMENTS OF TUGS.

Mr. Kelley. Will you please let it appear in your statement just where these tugs are?

Admiral COONTZ. Yes, sir.

Mr. Kelley. Will you put into the record a table of the 73 tugs

Admiral Coontz. Yes, sir.

Mr. Kelley. I think you had better put in a table, also, covering all of these tugs, so that we will have a comparison, with the usua table of complements.

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Would it be possible to differentiate those that an used for other than naval purposes?
Admiral COONTZ. Yes, sir; if there are any.
Mr. Kelley. Those used for Coast Guard services?

Admiral Coontz. Of course, those are incidental to the other duties but I will put them separately.

Fleet, harbor, district, and	d motor tugs.
First district:	•
Fleet tugs—	Complemen
Mohave	
Patapsco	
District tugs—	
Nottoway	9
Iwana	
Penacook.	
James Wooley	(1)
Harbor tugs—	_
No. 71	
No. 73	(1)
	9
Third district:	
Fleet tugs—	
' Lykens	
Sagamore	
District tugs—	20
	8
Cayuga	
Narkeeta	
Pentucket	
Harbor tugs—	
No. 54	
No. 56	
No. 61	
No. 67	
No. 72	
No. 81	
	10
Fourth district:	24
Fleet tug, Kalmia	
District tugs—	
Modoc	0
Nausett	
Samoset	
*****	- 0
Fifth district:	
Fleet tug, Keywaydin	30
District tugs—	
Advance	8
Hercules	
t	
LIMW Research season se	8
<u>el</u>	8

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·	The state of the s

Fleet tug, Umpqua. District tug, Sebago.	mplem	en
District tug, Sebago	30	
	9	_
43 31 4 1 4		3
wenth district:		
Fleet tug, Bay Spring.	24	
District tug, Šaco	9	
		3
ghth district:		
Fleet tug, Allegheny	24	
leventh district:		
Fleet tug, Koka	30	
Motor tuge—		
No. 86	4	
No. 88	ō	
		3
welfth district:		U
Fleet tugs-		
Tillamook	12	
Undaunted		•
	22	
District tugs—	_	
Lively	.8	
Navigator	12	
. Unadilla	11	
Vigilant	8	
Motor tugs—		
No. 94	4	
No. 95	5	
No. 96	0	
No. 99		
		8
irteenth district:		·
Fleet tugs—		
Challenge	14	
Iroquois		
Mahopac	30	
District tugs—		
Pawtucket		
Sotoyomo		
Motor tug, No. 98	4	
		8
ourteenth district:		
Fleet tugs—		
Keosanqua	39	
Sunnadín		
Harbor tugs—		
No. 49.	8	
No. 50		
Motor tugs—	J	
	7	
No. 90		
No. 90		10
No. 90. No. 93.		10
No. 90 No. 93		
No. 90. No. 93.		
No. 90. No. 93. Meenth district:		
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent.	30	
No. 90. No. 93. Meenth district:		
No. 90. No. 93. Meenth district: Fleet tugs— Patuxent Sciota		5
No. 90. No. 93. Meenth district: Fleet tugs— Patuxent. Sciota.		5
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Steenth district: Fleet tug Piscataqua.	20 	5
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Steenth district: Fleet tug Piscataqua.	20 	5
No. 90. No. 93. Ifteenth district: Fleet tugs— Patuxent. Sciota. Sciota. Sciota. Fleet tug Piscataqua. District tug Wompatuck.	20 	5
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Steenth district: Fleet tug Piscataqua.	20 	
No. 90. No. 93. Silicenth district: Fleet tugs— Patuxent. Sciota. Sciota. Steenth district: Fleet tug Piscataqua. District tug Wompatuck. No. 92.	20 	
No. 90. No. 93. lifeenth district: Fleet tugs— Patuxent Sciota steenth district: Fleet tug Piscataqua. District tug Wompatuck. No. 92.	20 	
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Sciota. Steenth district: Fleet tug Piscataqua District tug Wompatuck. No. 92. shington Navy Yard: District tugs	20 44 18 8	
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No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Sciota. Steenth district: Fleet tug Piscataqua District tug Wompatuck. No. 92. shington Navy Yard: District tugs	20 44 18 8	
No. 90. No. 93. Steenth district: Fleet tugs— Patuxent. Sciota. Sciota. Sciota. Sciota. Sciota. District tug Wompatuck. No. 92. Shington Navy Yard: District tugs— Catawba.	20 44 18 8	

Indianhead, Md.: District tug Triton	Complement
Total	
Fleet tugs. District tugs. Harbor tugs. Motor tugs.	III
Fleet tugs with fleet (Contocook, Sanoma).	
Total	79
Mr. Kelley. This seems like a large sum. At this rate get about \$4,500,000—it will be very much less? Colonel Roosevelt. It will be very much less; yes, sir. Secretary Denby. It is a tremendous department and the good many stations here and abroad.	

MOTOR PATROL SHIPS.

Mr. Kelley. We now come to the motor patrol. Admiral Coontz. I think there are only six of those left.

Mr. Kelley. If you will just put in a list of those to be kept in.

Admiral Coontz. Those to be kept in. The Asp, the Clarinds, Constance II, Privateer and Zumbrota are to be retained in commission. That is five.

Mr. Kelley. That is not a large expense, of course, What are

they for?

Admiral Coontz. The Zumbrota is the only vessel of light draft that can travel around in the seventh naval district with head-quarters at Key West, which embraces many hundreds of miles of sea. She carries five men.

Mr. Kelley. What does she travel around for?

Admiral Coontz. They have a large number of naval reservists in the district, for inspection or any sort of duty. She has to go to these places and she performs any other little duty that may be necessary around the naval station at Key West. The Clarinda is in the sixth naval district, Constance II is in the first naval district. The Privateer is a small craft in New York Harbor.

Secretary DENBY. She is the only vessel that the commandant

of the vard has.

Admiral COONTZ. The last time I was there the *Privateer* took me to the Hook and took me out to Rockaway.

Mr. Kelley. You want to keep five motor patrol vessels?

Admiral Coontz. Yes, sir.

Mr. Kelley. And about how many men?

Captain WILLIAMS. Forty-five men.

SPECIAL TYPE SHIPS.

Mr. Kelley. Now, the special types?

Admiral Coontz. The special types—these are a very much mixed collection. The Aroostook is with the air force on the Pacific. The Baltimore is the flagship of the mine squadron, Pacific Fleet.

Mr. Kelley. You do not need the Baltimore?

Admiral Coontz. Next comes the Black Hawk a destroyer tender. The Shawmut is with the mine force on the Atlantic. the repair ship on the Pacific. The Vesuvius goes out of commision. In other words, we want to keep five of those.

Mr. Kelley. The Canandaigua comes out?

Admiral Coontz. Yes, sir. The Roanoke returned to owners and In Francisco is to be sold. The Hoosatonic returned to owners. The Wright is there, but will go to another place, because she has een made an aircraft tender.

Mr. Kelley. The Black Hawk comes out of this list?

Admiral Coontz. Yes, sir.

Mr. Kelley. And goes into the list of destroyer tenders? Admiral Coontz. Yes, sir.

SHIPS USED AS MINE LAYERS.

Mr. Kelley. Tell us about the Baltimore?

Admiral Coontz. We have two vessels for mine laying, one the hawmut and the other is the Baltimore. We carry a small force in he Pacific and a small force in the Atlantic for the training of men or mine laying.

Mr. Kelley. What I am getting at is, you said that this was the

agship for the mine laying force?

Admiral Coonty. Yes, sir. She is a mine layer herself.

Mr. Kelley. You do not have any mine laying vessels?

Colonel ROOSEVELT. She lays mines.

Admiral Coontz. In all the service we now have 18 which we are ducing to 12, 2 of them being the Baltimore and the Shawmut and e others being the 10 mine layers.

Mr. Kelley. Is there any classification of the mine layers?

Admiral Coontz. No, sir. The other 14 destroyers we have ready spoken of in the summary of destroyers, but not in detail.

Mr. Kelley. The destroyers are used as mine layers? Admiral Coontz. Yes, sir; 14.

Mr. Kelley. Why not put the Baltimore, Shawmut and the other ssels to be used for mine-laying purposes in one group and call em mine-laying vessels?

Admiral Coontz. That is the way we keep them in our list.

Mr. Kelley. Please make the table on that basis.

Admiral Coontz. Yes, sir.

Mr. Kelley. About how many men will those 12 vessels require? Admiral Coontz. The Baltimore, Shawmut, and 10 light mine

Captain WILLIAMS. The Baltimore, Shawmut, and the 10 mine

Mr. Kelley. And those two vessels?

Captain WILLIAMS. One thousand six hundred and ninety, all told.

Mr. Kelley. About 350 men apiece?

Captain WILLIAMS. Some have more than that. The Shawmut is 369, the Baltimore 334, and the other 10 vessels 950.

Mr. Kelley. You want 1,653 men, as your figures show now, for ine-laying vessles?

Captain WILLIAMS. That is right.

Mr. Kelley. Please put in at this point a list of the 12 ships the are to be used for mine-laving purposes and the number of men now the number in 1916 for that purpose, if there were any, and the number that you ask for.

Captain WILLIAMS. Yes, sir. (See table, p. 216.)

Mr. Kelley. I wonder if it is necessary to have two mine-laying

squadrons, if that is the right name, in peace time?

Admiral Coontz. We have a pretty small number, considering hou we have to jump out in war. I suppose we had 70,000 men in the mine business during the war.

Mr. Kelley. I know, but you were in a big way then.

Admiral Coontz. Yes, sir.

Commander Hill. There is one point to remember. The min layers are being trained. The 10 are divided into 4 in the Atlantic 4 in the Pacific, and 2 for the Asiatic Fleet, for an entirely new phase of mine laying. There are mine layers which accompany the flet and which run in advance of the fleet and which cover wide areas i approach of the enemy and drop floating mines and things of the sort. It is entirely different.

SPECIAL NONPOWERED SHIPS.

Mr. Kelley. We now come to the special nonpowered ships. Admiral Coontz. Take them all out, sir.

Mr. Kelley. They all come out except one ship?

Admiral COONTZ. They all come out.

Mr. Kelley. All the way down?

Admiral Coontz. Yes, sir. The naval overseas tankers go out

Mr. Kelley. Where are they! Admiral Coontz. On page 143.

Mr. Kelley. Naval vessels, transportation service ships—refri

Colonel Roosevelt. They have all been taken out already.

Mr. Kelley. And the seagoing barges go out?

Colonel Roosevelt. Yes, sir.

Admiral Coontz. Canadian drifters and trawlers go out.

Mr. Kelley. Unserviceable for war purposes, those are relics ye have to keep up!

Admiral Coonty. The old Constellation takes two men and so do the Constitution. They come under shore stations.

Captain Williams. A couple of men each.

Admiral Coontz. The Bath is to be retained.

Mr. Kelley. They are old relics, historical, and that is perfect all right.

Admiral COONTZ. Part of these are for other duties. We ke the Bath, the Beaufort, and the Hartford.

Mr. Kelley. All the others come out!

Admiral Coontz. Yes, sir.

Mr. Kelley. Does the Granite State come out?

Admiral County. We have handled one as a receiving ship.

Mr. Kelley. That leaves the old Constellation, the old Constitution and the Hartford?

Admiral Coontz. Is the Southery a receiving ship?

Captain WILLIAMS. A receiving ship.

Admiral Coontz. That will come under the shore stations.

Mr. Kelley. You can just give us a list of those. I do not suppose number of men will be material.

The next are the ex-foreign? Admiral Coontz. The Bath-

Mr. Kelley (interposing). Everything down to the Bath is out?

CARGO SHIPS.

Admiral Coontz. Yes, sir. The Bath is a cargo vessel, the Beaufort a cargo vessel, the Bridgeport is a destroyer tender. I want to ≥heck up later to see if we have not already given the Bridgeport.

Commander Hill. She is one of the six destroyer tenders, and the

Example is the seventh submarine tender.

*Admiral Coontz. The Houston is ordered out of commission. Cittery is a small cargo vessel.

Mr. Kelley. We have not mentioned her anywhere else?
Admiral Coontz. No, sir. The Newport News is a cargo vessel. **he** Pensacola-

Mr. Kelley (interposing). Have we not mentioned the Pensacola? Admiral Coontz. Yes; but we have not put her down. The **Quincy** is ordered out of commission.

Mr. Byrnes. What is the *Pensacola*, a cargo vessel?

Admiral Coontz. Yes, sir.

Mr. Kelley. The Rappahannock?

Admiral COONTZ. I think we have her already in another list. Mr. Kelley. The Savannah. Some of these vessels appear twice.

Captain WILLIAMS. We have four not mentioned elsewhere.

Mr. Kelley. And five, the Pensacola.

Captain WILLIAMS. Five hundred and ninety men.

Mr. Kelley. What will you do with the rest of these ships?

Admiral Coonty. We have not had them. I never heard of most f them.

Mr. Kelley. Most of them were turned back to the owners after he war.

Colonel Roosevelt. How many have you on your list?

Mr. Kelley. Five.

Admiral Coontz. I should like to make a correction. These come mder the same head of ships from the Shipping Board. We have hree in addition to those mentioned.

Mr. Kelley. Old ones?

Admiral Coontz. The Capella, Sirius, and the Vega.

Mr. Kelley. Those ought to come in right now as a part of the mxiliary cargo ships carried in the other list.

Admiral Coonty. They take the place of those that we just poke of.

Mr. Kelley. This should be a table called cargo ships.

Admiral Coonty. That makes 273 more men for the Capella, Sirius, and Vega.

Mr. Kelley. Those are cargo ships?

Admiral Coontz. Yes, sir.

Captain WILLIAMS. Eight hundred and sixty-three men all told.

Mr. Kelley. What are those ships for? You have supply ship and store ships and repair ships and every other kind of ship and not

you have cargo ships with 863 men?

Admiral Coontz. Of course, we spoke of cargo ships a while as when we did not have the full list. We have, as I said, these mate rials and outfits to be carried. There are about 10,000 tons waiting to go to the Pacific.

Mr. Kelley. How do you distinguish between these transports? Colonel Roosevelt. One is personnel and the other material Primarily the transports are for the personnel and not for the

matériel.

Mr. Kelley. What are those at the navy yards, for materiel?

Colonel ROOSEVELT. Transports for personnel.

Secretary Denby. Perhaps, we saved \$45,000 in transportation. Colonel ROOSEVELT. We saved \$80,000 the first trip of the Northern

Pacific.

Admiral Coontz. From San Francisco to the East. The majority of our men still comes from east of the Mississippi River and when their enlistments expire—naturally the most of them are on the Pacific -- we bring them East.

Mr. Byrnes. You bring them to the Atlantic?

Admiral Coontz. Yes.

Mr. Byrnes. Is that the difference!

Admiral Coontz. Yes, sir

Mr. Kelley. What do you mean by saving? Did you count is the cost of operation of the vessel, or simply say this vessel is coming anyway and we will bring these people?

Admiral Coontz. I do not know. The colonel saved \$80,000 or

Colonel ROOSEVELT. As I recall, I did exactly what the chairman has suggested. I was given the figure of \$140,000. I said imme diately, "Does not the ship cost anything to run?" and my memor is that they took off sixty odd thousand dollars, but that is memory Mr. Chairman.

Mr. Kelley. This is quite an additional list of cargo ships?

Admiral Coontz. It is, Mr. Kelley.

Mr. Kelley. You did not have any of this type of ship before the war!

Colonel Roosevelt. Oh, ves.

Admiral Coonty. Yes, sir; we did. I know right now the Buffale Secretary Denby. We had three running down to the West dies. In the old days, before the war, they were not manned by the naval personnel.

Admiral Coontz. It is no desire on our part to do this and when

we felt we could we pulled 7 out of the 19.

Mr. Kelley. You are running how many now?

Admiral Coontz. Twelve transports and cargo vessels the 1st of July.

Secretary Denby. They also carry cargo. Admiral Coontz. And are always full.

Mr. Kelley. I can see in war time, of course, that you would

need many ships like this.

Admiral Coontz. I would like to give you one example. Suppose the first class of the Naval Academy graduates and suppose they

pre all taken into the service, 500, 300 would have to go to the cific and if carried across the country there would be \$250 raild fare. If you put them aboard one of these vessels you will take around and save all of that \$75,000.

Mr. Kelley. Less what it costs?

Admiral Coontz. Less what it costs. There is a fair sample of the bat saving. That is the kind of thing the Department claim they watching all the time.

Mr. Byrnes. What would you take on a trip of that kind, just

neral cargo?

Admiral COONTZ. We would take almost anything up to 16-inch ins. The Nevada has to be regunned. Her guns are at Philadelphia. y this method she does not have to go to the eastern coast to get

Mr. Byrnes. A considerable part of the armament would be manu-

etured near the east coast?

Admiral COONTZ. Yes, sir. Take, for instance, clothing, and the Sthing factories are on the east coast. The clothing must go out the Pacific. We could put it on board at much saving on the korbitant freight rates. Everything of that character comes along.

Mr. Kelley. Now, the light tenders are all out? Admiral Coontz. Yes, sir.

Mr. Kelley. And the Coast Guard has all gone back?

Admiral Coontz. Yes, sir; and the Coast and Geodetic Survey is

SHIPS MANNED FOR BUREAU OF FISHERIES.

Mr. Kelley. Has the Bureau of Fisheries all gone back?

Admiral Coontz. I would like to state for the record, in reference the Bureau of Fisheries, that the law requires the Navy Departent to man, with officers and men, the Bureau of Fisheries ships. here are two that will have to be manned, the Albatross and Fish lawk, which carry about 125 men. That is another one of those lings that we do not care to handle, but it is put upon us under the

Mr. Byrnes. We were discussing that yesterday, and I think the lavy should be paid for that. There was another item that Mr, rench called attention to where the Navy should pay the Interior epartment for its services in connection with fuel oil.

Mr. Kelley. Are not those two vessels of the Fish Commission

perating all the time?

Admiral Coonty. No, sir; one of them is now out of commission, et it is going into commission in the next fiscal year.

Mr. Kelley. How many men do you assign to those vessels?

Admiral Coonty. We have 44 assigned to one and 81 to the other. Mr. Kelley. For the next fiscal year how many do you estimate? Admiral Coontz. I should say that it would average 100.

Secretary Denby. The Secretary of Commerce expects to have

wo of them in commission next year.

Admiral Coontz. We will use 125 men in that way.

MISCELLANEOUS SHIPS.

AMMUNITION SHIPS.

Mr. Kelley. Suppose we take the miscellaneous ships.

Admiral COONTZ. I have only the Nitro and Pyro, which are ammunition ships built by the Government and now engaged carrying ammunition, particularly to the Pacific coast and the Phipines.

Mr. Kelley. All of the rest of those ships are out?

Admiral Coontz. Yes, sir; they are out. Captain Williams. They require 354 men.

Mr. Kelley. For those two ships?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. What are they for?

Admiral COONTZ. They were built especially for carrying amm tion. We will take the case of the U. S. S. California, which is built on the Pacific coast and has never been around to the coast. You can imagine the hundreds of tons of ammunition to she must carry, and one of these vessels carries it around the From time to time powder must be broken down and gone over a fixed up, and these ships would bring the powder to the point whit was to be attended to.

Mr. Kelley. One would be all that you would need next year

carry ammunition, would it not?

Admiral Coontz. No, sir: we are running two at full tilt. If time should come when one could be dropped out, we would d quickly.

Mr. Kelley. How many men do they require? Captain Williams. Three hundred and fifty-four.

RADIO STATION SUPPLY SHIPS.

Admiral Coonty. There are three ships that do not show on One is the Gold Star, which is a vessel that supplies naval radio stations in Alaska. It is to relieve the U.S. S. Satwhich is to be sold. That ship is nearly 50 years old. This ship s plies the radio stations in Alaska, which are located as follows: Paul, St. George, Dutch Harbor, Kodiak, Seward, Cordova, June Ketchikan, and the compass stations at Cape Hinchinbrook Soapstone Point. We carry on those stations, of course, all over world, and I do not mind saving that we control our communicati in central Europe at the present time not only for our own per but for our commercial people. We have several times attemp to draw out, but Mr. Hoover has asked us to remain. They say thare 1,000 American business men in Constantinople, and the constantinople. company would not take a secret message for them. We send t messages by way of France, and down to Constantinople. We h about 20 men in that business in Europe. I might say that the (Star does work for all of the other departments in Alaska, include helping out the sick on the seal islands, etc.

Mr. Kelley. You are referring to the Gold Star?

Admiral COONTZ. Yes, sir.

Captain WILLIAMS. She requires 97 men. Mr. Kelley. What are the other two ships?

TARGET REPAIR SHIPS.

Admiral Coontz. There are two target repair ships, one with sh fleet.

Mr. Kelley. What are their names?

Admiral County. They are the Antares and Procyon. ieved two old ships that were placed out of commission. tried target material, photographic material, etc., and they stay th the fleets during target practice.

Mr. Kelley. How many men do they carry? Captain Williams. Ninety-one each.

Mr. Kelley. One of them is with each fleet?

Admiral COONTZ. Yes, sir.

Mr. Kelley. They operate the year around? Admiral Coontz. Yes, sir.

Mr. Kelley. That makes five vessels in that group?

Admiral Coontz. Yes, sir. I am not sure whether we took up the **Fight** or not.

Colonel ROOSEVELT. That is an airplane tender. Did we take up **e** Hannibal ₹

Secretary Denby. The Hannibal has been doing surveying work Honduras.

Mr. Kelley. You may fix up a table covering those five ships.

Admiral Coontz. The *Hannibal* is doing surveying duty. Colonel ROOSEVELT. The Wright is an aircraft tender. e two aircraft tenders, one with each fleet, namely, the Aroostook d the Wright. There is another one here, the repair ship Pro-etheus, and I do not know whether you took up that one, or not. do not think you have covered the Vestal either.

Commander HILL. They were mentioned separately.

Mr. Kelley. What list does the Prometheus come under?

Commander Hill. Under torpedo boat tenders, on page 118. ne Vestal appears on page 135, under the heading, "Special type." oth are covered.

Colonel ROOSEVELT. May I suggest that we prepare a list showing e ships under their proper classifications, all the way down, so at they may not be mixed up and appear on the wrong list?

RECEIVING SHIPS AND BARRACKS.

Mr. Kelley. For the present, we had better stick to what we ave, but when we get through with these tables, just as we have sked for them, then a list like this you have shown me might be repared as a summary.

Which of these receiving ships on page 154 are receiving barracks? Admiral Coonty. I will have to ask Captain Williams to answer

at question.

Mr. Kelley. Point out which of them are ships and which are arracks. I am referring to those designated as receiving ships. Captain WILLIAMS. On this list on page 154?

Mr. Kelley. Yes; it starts on page 153.

Captain WILLIAMS. I will start with the receiving ship at Hampton oads, on page 153: That is barracks.

Mr. Kelley. How about the receiving ship at Halifax and t receiving ship Olongapo?

Captain Williams. They are out. The receiving ship at Hampt

Roads is barracks; Norfolk is out.

Mr. Kelley. That used to be a ship?

Captain WILLIAMS. Yes, sir. The receiving ship Charleston in ship; the receiving ship Puget Sound is a ship; the receiving at Cavite is a ship; the receiving ship Newport is out; the receiving ship New Orleans is out; the receiving ship New Orleans is out; receiving ship Washington is a district craft. That has been order out, and we are using craft at the docks, or the Mayflower or & when they are here. The receiving ship Pearl Harbor is a ship; receiving ship Guantanamo is a district craft that we use for a receiving ship ing ship; the receiving ship Great Lakes is out; the receiving a Coco Solo is out; the receiving ship San Francisco is a ship; receiving ship Mare Island is a barracks; the receiving ship Pe mouth is a ship; the receiving ship Boston is a barracks; the receiv ship New York is a ship; and the receiving ship Philadelphia barracks. That covers about all of the receiving ships.

Mr. Kelley. You will make a table covering the receiving tions, showing the number of enlisted men necessary to man t stations, whether they are barracks or ships. We want their plements and the number now present, and the number vou

estimating for next year.

Captain WILLIAMS. Yes, sir.

Mr. Kelley. And indicate in the statement whether they ships or barracks.

Captain WILLIAMS. Yes, sir.

Receiving ships, receiving barracks, and station ships.

		On boar		
Location.	Comple- ment.	Operating force.	G	
Portsmouth (Southery). Boston New York (Pueblo) Philadelphia Hampton Roads. Charleston (Hartford) San Francisco (Boston). Mare Island Puget Sound (Philadelphia) Cavite (Ajax). Annapolis (Reina Mercedes) Washington, D. (**) Pearl Harbor (Hancock).	77 320 124 88 75 160 207 109 67	45 79 820 164 85 71 136 151 106 98 74 85		
Total	1, 557	1, 530	_	

 ³⁴⁸ mess attendants charged against Naval Academy.
 And 158 under instruction.

Mr. Kelley. In making these statements, the fact that the are paid there in one way or another does not really show the of the station, and it is very misleading. Is there not some wa which the bookkeeping could be adjusted to show what the sta cost, independent of the flow of the expense or the pay of men ; back and forth?

· Admiral Coontz. I think that is along the line that the Secretary is working now in his effort to develop a cost-accounting system that will place things where they belong. For instance, on a receiving ship there may be 2,000 men going through and getting their pay. I notice a vast sum of money there in connection with the Henderson, for instance. That means that the account is carried against that the paid while she is carrying them. She may be parrying them as passengers, and if the Henderson has the money, the pays them.

Mr. Kelley. That is, if they are paid while traveling on her, it spears as a charge against the Henderson?
Admiral Coontz. Yes, sir. We are very anxious to get that traightened out, because here is the situation we are confronted with these tables: There appear on these tables craft that have been Tank for seven or eight years, but they are still put down in 1921. You can see that from the number of ships we have struck off to-day. We should have a special table covering the ships in service during the past year alone, and not have this accumulation of charges for

Captain WILLIAMS. For the receiving ship there would be required about 1,034 men, and for the receiving barracks about 676.

would be the complement.

Mr. Kelley. One thousand seven hundred and ten for the receiving ships and barracks?

Captain WILLIAMS. I would call it 1,750.

FLEET AVIATION.

Mr. Kelley. Have we covered the ships in connection with fleet aviation?

Admiral Coontz. No, sir.

Mr. Kelley. What are the ships in fleet aviation?

Captain WILLIAMS. There are 1,100 men.

Mr. Kelley. What ships are they on? Captain Williams. They are organized into squadrons that can be shifted to any ships whatsoever. They are the flying forces. The aircraft tenders are the Aroostook and the Wright.

Mr. Kelley. We have had them.

Captain WILLIAMS. This other is the flying detachment that belongs with the fleets. They are really attached to the flying boats. Colonel ROOSEVELT. They are airdromes, and they are not at-

tached to any ship. For instance, when they have an airship on board a battleship that may be launched by means of a catapult, they have a number of men attached for that service.

Mr. Kelley. How many men do you want for that service?

Admiral COONTZ. One thousand one hundred.

Mr. Kelley. They are scattered throughout the two fleets, and are on board the various battleships and airplane carriers.

Admiral Coontz. Yes, sir; including the Wright and the Arostook. Commander HILL. That is explained by the fact that the Wright, the Langley, and various other ships that carry planes, carry nonaviation complements.

Mr. Kelley. Let us get that straight: You want 1,100 men to be carried through the fleet, and this will include the number on the Aroostook and the Wright?

Commander Hill. And the Langley. It includes men who are

aviation mechanics, repair men, and flyers.

Colonel ROOSEVELT. I do not understand it that way. I understand that the complement of 1,100 men is surplusage over the complements for the Wright, the Arosstook, and the Langley.
Commander Hill. That is right. The complements we have

going out are straight navy complements.

Mr. Kelley. You want men enough to operate the Arostock, the Wright, and the Langley as ships, and then you want 1,100 mm besides those?

Commander HILL. Yes, sir; to go not only on those three ships, but on the battleships which have planes that are launched by catapults.

DISTRIBUTION OF MEN FOR FLEET AVIATION.

Mr. Kelley. How do you arrive at 1,100 men for that service? Admiral Coontz. I will have to ask the Bureau of Navigation to give the figures.

Mr. Kelley. Suppose you prepare a table showing the distri-

bution of those 1,100 men.

Captain WILLIAMS. I will do so.

Distribution of fleet air detachments, comprising total of 1,100.

	omplement - 57
Air squadrons. Scouting Squadron No. 2. Torpedo Plane Squadron No. 1.	1457
Kite Balloon Squadron No. 1. Scouting Squadron No. 1.	35
Total	403-
Pacific Fleet: Combat Squadron No. 4 Seaplane Patrol Squadron No. 1 Spotting Squadron No. 4 Spotting Squadron (L) No. 1 Combat Squadron No. 3 Spotting Squadron No. 3 Air squadrons Combat Squadron (L) No. 1	106 110 70 91 115
Total	697
Grand total	1,100

Mr. ()LIVER. Of course, you contemplate that you will have adequate facilities for this complement of men to use when they are assigned to the ships. In other words, you would not assign a flying squadron to a ship that was not provided with facilities for flying?

Secretary Denby. No.

Mr. Kelley. How many men do you now have scattered through the fleet for this purpose?

Captain WILLIAMS. Six hundred and thirty-two.

Commander Hill. The Langley is not yet in commission.

Mr. Kelley. You have 632 out of the 1,100?

Captain WILLIAMS. Yes, sir.

Commander Hill. And the Langley is not yet in commission.

Mr. Kelley. The Langley is a separate proposition.

Commander Hill. About 400 men of the 1,100 are for the Langley. Colonel ROOSEVELT. What Mr. Hill means is this: When the ingley is commissioned, then these men will go on board her, beuse she will have the facilities to take care of them, but they will not considered as a part of the Langley's crew, but they will discharge a They will be airmen. In addition to that, a large ecial function. umber of battleships are being equipped with catapults now, but nose vessels have not air people on board now, because we do not ut air people on board a ship until the facilities are provided.

Mr. Kelley. Of course, we will go into that question later in conection with the number of ships to be fitted up for that purpose. ant to have this clear in my mind, and I do not think you gentlemen

ave the same view of it.

Commander Hill. Yes, sir; we are in accord.

Mr. Kelley. Your notion is that there are 632 men in the fleet now hat are not charged to any particular aviation ships, and that when he Langley comes in, she will require 400?

Captain WILLIAMS. Three hundred and thirty-nine.

Mr. Kelley. That makes practically the 1,100 you are asking for. Captain WILLIAMS. No, sir. We have two aircraft tenders and one aircraft carrier, and one fleet aviation detachment. The fleet aviation detachment is now composed of 632 men, but the fleet aircraft carrier, which is the Langley, is not now in commission. The two aircraft tenders, the Aroostook and the Wright, have a complement of 536 men.

Mr. Kelley. How many does that make altogether?

Captain WILLIAMS. That makes 1,476.

Mr. KELLEY. And that is the number you want next year?

Captain WILLIAMS. That is the number we have now; next year we want 1.975.

Mr. Kelley. You want 1,975 next year for fleet aviation?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You will prepare the tables for us?

Captain WILLIAMS. Yes, sir.

DISTRICT CRAFT.

Mr. Kelley. We now come to the district craft. What ships have we in the first naval district?

Secretary Denby. I think we have been over that, Mr. Chairman.

Mr. Kelley. There was \$4,000,000 worth of them in 1921. Admiral Coontz. I would like to ask Mr. Reed whether he has

my figures on that.

Mr. Kelley. Yesterday he did not have a list of any vessels at all. Commander Hill. We have covered all of those under different eadings.

Colonel ROOSEVELT. We have been over the whole thing.

Mr. Kelley. Are more naval reserves involved?

Secretary Denby. It is largely naval reserves.

Mr. Kelley. Why do you have them in here, then?

Secretary Denby. This book is not our guide; we have been following it with you. We have had our vessels all mixed up and we have been trying to untangle them.

Commander Hill. We have been over the majority of them; all of the harbor tugs and seagoing tugs we went over, under the head

of tugs, etc., most of them.

Mr. Kelley. We have been over this long list of tugs and now we come to naval districts and their craft, the operation and maintenance of which cost in 1921 \$4,307,136, and there are no details of the ships at all.

Mr. Byrnes. Does that represent shore supplies or ships?

Admiral COONTZ. I will be perfectly frank. I have no idea what it is, and I would like an opportunity to study it; it might be ships or it might be shore supplies.

Captain WILLIAMS. I can give the number of men affoat in the

districts.

Admiral Coontz. The ships used by the districts, with the possible exception of a very small number of vessels, have all been enumerated.

Mr. Kelley. Where does this \$4,000,000 come from?

Admiral COONTZ. That is what I want to find out, and I will be very glad to find out. My impression is that it has nothing to do with ships of that character.

Mr. Kelley. What is your understanding about it, Mr. Reed?

Mr. Reed. My understanding is that it is reported in by ships and that it is in addition to the other charges carried in the other tables. I did not go back to the detailed record cards when I got back to the office.

Secretary Denby. It is meaningless here if it refers to ships.

Admiral COONTZ. The ships have all been covered except 10 or 15 small craft. This may be pay of reservists, of which we had a large number.

Mr. Kelley. You will see that only a small part is for pay.

Mr. French. Yes; only a small part is for pay; a part of it is for equipage and a part for stores.

Mr. Kelley. And for repairs and alterations.

Secretary Denby. There are 5 districts in a row here in which there were no repairs; the first one had no repairs, and there are only 6 out of 15 districts that have had repairs or alterations.

Colonel Roosevelt. The sum total for repairs is only \$8,688.

Secretary Denby. Which would not indicate ships. Mr. Kelley. Are you asking for any more ships?

Mr. Kelley. Are you asking for any more ships? Admiral Coontz. Not to exceed 15, which would be on Captain Williams's list as possible ferryboats; we run a ferryboat from Mare Island to Vallejo, and we run one from Portsmouth, N. H., to the Kittery, and something like that. But we have covered, as far as I know, everything else.

Mr. Kelley. Now, then, Admiral: I will ask you and the Bureau of Supplies and Accounts to look that up over night so that we will have a clear understanding of it. Now, all through the discussion of ships you have stated at different times that such and such ships

were going out of commission.

Admiral Coontz. Yes, sir.

Mr. Kelley. In those cases that means absolutely out of commission?

Admiral Coontz. Yes, sir.

Kelley. And not in reserve with any men on board? niral Coontz. No, sir.

etary Denby. But solely in the discretion of the department. niral COONTZ. There might be a few exceptions, but nothing rould amount to anything.

rould amount to anything.
Kelley. You have indicated to-day your needs as far as

in see them?

niral Coontz. Afloat, yes, sir; I think we have covered every-

Kelley. We are very much obliged to you.

FATEMENT SHOWING COMPARATIVE STRENGTH OF FIVE GREAT POWERS.

BYRNES. Admiral, when you summarize the total of your afloat, can you, without much trouble, prepare a statement the best knowledge of the Navy as to the number of similar afloat in the Navy of Great Britain as in the Navy of Japan? niral Coontz. Yes, sir.

BYRNES. So we may have it for our information. niral COONTZ. I think we can cover that fairly well.

Comparative fighting strengths of the five great naval powers.

Туре.	Great Britain.		United States.		Japan		France.		Italy.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
IPS BUILT.										
ps, first line ps, second line lisers, first line ruisers, second	26 7 6	635, 650 127, 150 175, 400	18 13	500, 650 202, 740	7 4 4	212, 120 71, 500 110, 000	7 4	161, 911 74, 062	6 4	143, 000 50, 400
	4	72,100								
first line second line	2	37, 200 46, 100	10	131, 300	5	59, 200	10	119, 108		46, 500
isers, first line	47		10	131, 300	11	54, 850		17, 802	5	21,000
isers, second line	14	208, 915 74, 465	9	30, 450	1	4, 100	4	3, 444	5	17, 300
r leaders	20	34, 376	9	30, 130		4, 100	1	2, 485	6	10, 300
s, first line	179	208, 742	294	349, 555	43	44, 613	10	89,073	27	22, 679
rs, second line	6	4, 200	21	15, 582	1 12	7, 850	34	23, 947	16	11, 840
ies, first line	45	36, 563	58	35, 843	14	10, 888	16	12, 333	10	8,040
ies, second line	37	15,671	42	15, 905	10	3, 259	24	9, 447	33	9,610
bmarines, first		10,011	1	210, 100	10	0,200		0, 44	00	0,010
marines, second	6	11, 280	3	3, 318	9999	******	****		*****	
	6	7, 200								
ubmarines	3	4,800								
arriers, first line.	4	62, 590	22,22,5	******		1000	1	24, 830		
	3	26, 130			1	5, 875			446.854	
als	419	1,787,932	468	1.285,343	112	584, 255	112	538, 442	117	340, 669
ing programs.										
Cattlin			ń	new man		050,000				l bereit
ps, first line		160,000	9	357,000	6	253, 800		*5*****	*****	
disers, first line	4 2	19, 500	10	261,000	16	352,000 85,700	3	24,000	2	16,000
isers, first line		1,750	10	75,000	10	50, 100	6	14, 400	6	12, 270
r leaders rs, first line	6	7, 450	15	19,620	58	66,865	12	16, 800	12	11,680
Se constitution of	1 30	1000000	1	277 (2.2)	1 32	29, 022	1	1000000	1	10.7550
ies, first line	6	7,580	35	31,000	52	(2)	12	13, 200	4	2,600
marines, first line			9	14,850						
carriers, second			1	19, 360	3	27,000				*******
als	19	196, 320	85	777, 830	{ 123 52	814, 387 (2)	} 33	68, 400	24	12, 550

retains 33 other destroyers, of 381 tons each, in active commission; total active, 88. age unknown.

Mr. Kelley. If you will let me have your summary—I think the is the proper name for it—of practically all we have gone through for my own use, overnight, I will be much obliged to you. The will cover the ships as you have given them in general. Then it will appear in the record, of course, exactly as we have modified it by changing the ships from one group to another. We want the record to appear as we have developed it here to-day, but I would like the summary which you have used in making up your own figures.

Secretary DENBY. I have here, Mr. Chairman, which I merely as to be filed, a statement showing the economies that have been under taken by the department during the last year, the orders that have been issued, and the attempts made to bring about economies. want to show you what we have done in trying to bring about economies.

omies.

Mr. Kelley. As that is rather a large document, could it not be summarized for us, and then it might be possible to publish it in the record?

Secretary Denby. That might be possible; yes. Then I have another statement which I would like to file, which can not be summarized, showing the mission of the varying classes of vessels, the number, and their complement.

Mr. Kelley. We could make an abstract of it ourselves, but

suppose it would be better for you to do it yourself.

Admiral, I have read somewhere, I think in the hearings he before the House Committee on Naval Affairs, a statement show the relative number of men on shore as compared to the men aflor Do you recall what that statement was?

Admiral Coontz. Yes, sir; I think the Bureau of Navigation es

mates that as two to one.

Mr. Kelley. And then after we get the number afloat we simp take one-third, and one-third of that number would fairly represe the shore activities.

Colonel ROOSEVELT. One-half.

Admiral COONTZ. But, Mr. Kelley, in the shore activities are the tugs, harbor tugs, Eagles, subchasers, miscellaneous, etc., and wh I have listed here is straight seagoing material, and the men th navigation counts to make that other come in these minor mater in the replacements and everything of that sort. So we should n add these to the seagoing and then add half to it, because that wou be taking a part of that other, and when we get through with se going we simply get down to these various other things, down to the Fish Commission, the special-duty craft, the submarines and costrovers in reserve.

DISTRIBUTION OF SHORE PERSONNEL.

Mr. Kelley. Have you a distribution of the shore personnel? Captain Williams. Not complete, but I can give you an appromate distribution of the total number of men actually in service 100,999; at that time there were 4,981 in training; the operatishore establishments had 15,985 and the replacements were 7,8 plus 4,062 men in transit.

Mr. Kelley. That is our old friend again, replacements.

Captain WILLIAMS. That is a difficult puzzle but it still exists; it has not died.

Mr. Kelley. What is the total for the shore activities?

Captain WILLIAMS. The total is 32,861, roughly.

Mr. Kelley. About one-third?

Captain WILLIAMS. Just about, sir.

Admiral Coontz. Have you radio and aviation in there?

Captain WILLIAMS. Aviation in this particular distribution was **2,**100.

Mr. Kelley. Let us have the sheet showing that, just for our use.

Captain Williams. You may have this, sir.

Distribution as of January 1, 1922.

Total affoat		68, 138
Total ashore:		
Operating force	11, 392	
Operating force	,	•
students in trade schools	11, 172	
Receiving ships—	•	
Operating	1, 241	
Receiving ships— Operating	1,642	
District vessels	3, 352	
•	28, 799	
	20, 100	
In transit	4,062	
		32, 861
	-	••••
Grand total		100, 999

DEPARTMENT'S ATTITUDE TOWARD KEEPING NAVAL RATIO AS ESTABLISHED BY CON-FERENCE.

Mr. Kelley. Mr. Secretary, I will be glad to have you make any

general statement you desire to make.

Secretary Denby. Mr. Chairman, I have no desire to say very much this afternoon. I would like to point out simply that we have during the past year made the most strenuous possible effort at economy, consistent with the maintenance of the fleet we inherited, the American fleet; we got it, we must keep it up; and personally I am very earnestly of the opinion that we must still keep it up, no matter what the fate of the treaty is. The treaty dealt only with some few I do not intend to plead for an excessive Navy, but I am going to plead that the Navy determined by the treaty shall be maintained by the United States. I do not think there is any reason and any justification for increasing it, but I do hope that a fair Navy for the United States shall be maintained as the United States Navy, or call it a treaty Navy, if you like, or whatever other name you We will fall below our ratio of 5-5-3 so terribly choose to call it. if we do not maintain our personnel and ships and if we do not do that we will ourselves have defeated the treaty purpose. So I ask that in the bill you are discussing these and other elements be taken into account.

For the department I wish to say that we are the tools of Congress and will, of course, cheerfully administer whatever Navy we may get. I am not arguing for anything more than that which has apparently been indicated through the Executive branch; I do not know what conversations you gentlemen may have had with the President himself and I am only taking the things that all the world knows. According to the treaty the Navy for the United States was based on 18 battle ships; we know what England has and we know what Japan has, but we do not know yet what we are going to have. However, we ought to have a Navy based upon 18 battleships, with the accompanying auxiliaries, cruisers, and other necessary vessels, and the necessary personnel. You can not make a destroyer man in a minute; you can not make a submarine man in a month, and you can not even make a battleship man worth anything inside of a certain number of months of training.

Mr. Kelley. The only agreement you reached in the conference

was relative to battleships.

Secretary DENBY. Yes, sir.

Mr. Kelley. Before the war we had in commission more battleships than we are allowed to have under the treaty.

Secretary DENBY. Yes, sir.

Mr. Kelley. And we only had about 50,000 men.

Secretary Denby. I have forgotten the number of men, but we had a very much reduced Navy, of course, before the war.

Mr. Kelley. My recollection is that we had 20 battleships in full

commission and several in semicommission.

Secretary Denby. But they were a different type of craft than we build now, and they did not have all of the complicated arrangements made necessary by recent events.

Mr. Kelley. We had 13 of the same class.

Secretary DENBY. Yes; but, Mr. Chairman, we did not have then our destroyers.

Mr. Kelley. But our agreement only relates to battleships.

Secretary Denby. Yes; battleships and airplane carriers; those were the two specific things, but does not everybody realize that a 5-5-3 Navy means that the Navy is based upon battleships plus the auxiliaries which modern science has developed, and if we should lop off our auxiliaries and have only our battleships we would drop far lower than even the figures would indicate.

Mr. Kelley. When we made this new program, this 1916 program, we had 50 destroyers, and the naval officers said that if we had 50 more to go with the new program, making 100 in all, that would be ample, while now we have 300, in round numbers, with the new pro-

gram discontinued.

Secretary Denby. Yes.

Mr. Kelley. So, of course, we have a vast excess of destroyers over and above what anybody contemplated would be necessary for the ships we had at that time plus the five we have taken in since.

Secretary DENBY. Of course, we all know why we have so many

destroyers; they were practically a war measure.

Mr. Kelley. But simply because we have them is no reason why

we should go beyond that which the naval men suggested.

You want 123 for the battleship fleet when you did not expect to have but 100 for all of this battleship fleet, plus those you are going to scrap, and in spite of the further fact that aviation has developed very largely to take the place of destroyers?

Admiral Coontz. We learned a great many things during the war. We learned the value of the different types of craft, and we know the

y serious nature of both. We know the need of speedy cruisers meet the destroyers.

Mr. Kelley. If we follow the 5-3 plan as to battleships, that is, sording to your idea?

Admiral COONTZ. Yes, sir.

Mr. Kelley. Plus the building of the light cruisers? Admiral Coontz. I think you are not far off now.

Mr. Kelley. Will that meet your approval?

Admiral Coontz. I agree as to keeping up the 5-5-3 ratio.

Colonel Roosevelt. We did not say 5-3; we said 5-5-3. You are

aly talking 5-3.

Admiral COONTZ. If you look at the list of light cruisers of Great kitain you will see 283,380 tons of light cruisers, and Japan has a t more than ourselves.

Mr. Kelley. If you keep on with the development of aviation, hat is the significance of the light cruisers?

Admiral COONTZ. Aviation has not gotten very far.

Mr. Kelley. If you are going to spend some money for developent, why not spend it on aviation and keep the destroyers in comission?

Admiral Coontz. We have cut down. The light cruisers will come

ong in the next couple of years.

Mr. Kelley. My recollection is that you always thought of these the cruisers as scouts to go out and find where the enemy is. Now, ith aviation, why have these ships with 1,100 men for the purpose finding out where the enemy is, a small cruiser that has not any in power?

Admiral COONTZ. They will be the very finest and will help us

ong very much.

Mr. Kelley. What is the gun power?

Admiral Coontz. Six-inch guns with speed of 30 or 32 knots.

Mr. Kelley. What would a 6-inch gun do?

Admiral Coontz. A great deal to a destroyer or any other light uiser.

Secretary DENBY. I would like to emphasize the idea, as a general oposition, that it is well to keep the Navy up even after making e treaty and before its ratification. I think it would be disastrous r the United States to drastically cut the Navy.

Mr. Kelley. Admiral, there is just one other question. When e get the list, as you have indicated, the number of ships in each oup, are there some activities that if you were deprived of the full imber of men that you would prefer to curtail rather than others?

Admiral Coontz. Yes, sir.

Mr. Kelley. If we decide later on that this number of men Coness, perhaps, might not be willing to grant, you will cooperate with to the end of eliminating from the list what you have indicated as sirable?

Admiral Coontz. I certainly would, Mr. Kelley. I think that the thing force afloat is what deserves first consideration. I would the thesitate to shut up a shore station to save money and to save men afloat. I would not hesitate, wherever it could be done. Ou remember when the last war broke the order of President ilson pulled the lieutenants and trained men out of the battleships the armed merchant ships. That is what they did. We had to

have trained men and if anything happens I would resort to alm any alternative to get away from that and save these men, because I feel it is vital to have trained men. We propose as the hearing along, to indicate where we will try to make further savings in on to save the personnel. We have the ships. You talk about destroyers, the question of destroyers had more to do in this e ference than almost anything else.

Mr. Kelley. We will have them, if you do not run them? Admiral Coontz. Yes; but you want to run them and you w

somebody who can act quickly.

FRIDAY, MARCH 10, 192

ESTIMATE OF COMPLEMENTS FOR 1923.

BATTLESHIPS.

Mr. Kelley. We have with us this morning the Secretary of Navy, Admiral Coontz, Captain Williams, of the Bureau of ? gation, and other assistants.

Admiral, we would like to check over this morning the numb

men afloat.

Admiral Coontz. Yes, sir.

Mr. Kelley. What is your latest estimate of the number of required on the 18 battleships to be in commission next year Captain WILLIAMS. The total?

Mr. Kelley. Yes, sir.

Captain WILLIAMS. The total is 21,721.

Mr. Kelley. Now, please give me the total number of me those ships, that is, February 1.

Commander Leahy. 18,273. Secretary Denby. That is the present strength.

Mr. Kelley. The number on board as of February 1.

CRUISERS.

Now, Captain, you are asking for 10 cruisers besides the ones?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Please name those 10 cruisers.

Captain Williams. Huron, Pueblo, Seattle, Charleston, Rock

Birmingham, Cleveland, Denver, Galveston, and Tacoma.

Mr. Kelley. Please give the number of men you are askin for each one of those ships right down the line in the same or

Captain WILLIAMS. Huron, 791: Pueblo, 791; Seattle, Charleston, 649: Rochester, 544; Birmingham, 300; Cleve 288: Denver, 288: Galveston, 288; and Tacoma, 288.

Mr. Kelley. The total?

Captain WILLIAMS. Five thousand and eighteen.

Mr. Kelley. Please give in the same order the number of m those ships as of February 1.

tain WILLIAMS. Huron, 684; Pueblo, 320; Seattle, 0; Charleston, Rochester, 366; Birmingham, 276; Cleveland, 276; Denver, 303; ston, 302; and Tacoma, 277.

KELLEY. And the total?

tain Williams. Two thousand nine hundred and ninety-seven.

Kelley. How many men do you require for the Seattle? tain Williams. Seven hundred and ninety-one.

KELLEY. And how many for the Charleston?

tain WILLIAMS. Six hundred and forty-nine.

Kelley. That makes how many for those two ships? tain WILLIAMS. One thousand four hundred and forty.

. Kelley. If you add those to the 2,997, it makes 4,437 for all. ruisers?

miral COONTZ. I think you should remember one fact, that the o, which is now the receiving ship at New York, having 320, is to go to relieve the *Utah*. She is now the receiving ship, and ill relieve the *Utah*, which comes home.

. Kelley. That would reduce the number? miral Coontz. It would add 300 to the number.

. Kelley. We allowed 2,100 men for the Utah?

miral Coontz. No; not 2,100.

. Kelley. One thousand one hundred?

miral COONTZ. Yes, sir. She is to come back and take her place battle line. She is a battleship.

. Byrnes. What becomes of the men on the Utah?

miral Coontz. The Utah is one of the 18 battleships that we under the treaty. We thought we were going to throw her , but we kept her under the treaty when we had an exchange of with the other countries. She has already been counted.

. Kelley. That takes care of the cruisers?

miral Coontz. Yes, sir.

. Kelley. You will eliminate the monitor Cheyenne? miral Coonty. That will be replaced, and we will save that v for something else.

DESTROYERS.

. Kelley. How many men are you asking for the 126 destroyers? ptain Williams. Eleven thousand eight hundred and seventeen. . Kelley. As stated the other day, that is 102 for 103 destroy-

miral Coontz. Yes, sir.

ptain Williams. That will be composed of 103 destroyers, with r cent complements.

. Kelley. Give the number of men.

ptain Williams. One hundred and two men, or a total of 10,506; stroyers with 50 per cent complements, 57 men, a total of 1,311.

. Kelley. Making a total of 11,817. ptain Williams. Yes, sir.

Kelley. That is 5 divisions of 19 each and 8 for the Mediter-

miral Coontz. Yes, sir.

. Kelley. You will place 23 in partial commission? miral Coontz. Yes, sir.

Mr. Kelley. How many destroyers have you now in full commi sion?

Captain WILLIAMS. Sixty-five.

Mr. Kelley. How many men are on board those 65 destroyers! Captain WILLIAMS. Five thousand six hundred and four.

Mr. Kelley. Or an average of how many per ship?

Captain WILLIAMS. Eighty-six.

Mr. Kelley. How many have you now on the destroyers in parti commission?

Captain Williams. Two hundred and thirteen destroyers.

Mr. Kelley. With how many men in all?

Captain WILLIAMS. Eleven thousand nine hundred and thirt eight.

Mr. Kelley. That is an average of how many per ship?

Captain WILLIAMS. An average of 56.

MINE LAYERS.

Mr. Kelley. Now, we come to the 10 light mine layers. G. the names of the ships.

Commander Hill. I have not the names.

Mr. Kelley. I have a list of the names: They are the Luce, t Maury, the Lansdale, the Mahan, the Ingraham, the Ludlow, Burns, the Anthony, the Hart, and the Rizal.

How many men are you asking for these 10 light mine layers? Captain WILLIAMS. Nine hundred and ninety.

Mr. Kelley. How many have you on board the 10 mine lay now?

Commander HILL. There are 14 in commission, with a total 1,358, which is an average of 97 men per vessel.

Mr. Kelley. Almost the same figure?

Commander HILL. Yes, sir.

SUBMARINES.

Mr. Kelley. The number of submarines in active commission what?

Captain WILLIAMS. Eighty-four.

Mr. Kelley. I mean now. Those new ones have not come that you are figuring on to make up the 84.

Captain Williams. Sixty-one.

Admiral Coontz. There were 61 in full commission, but this ta down at the bottom will have to be gone through to find out whet! they are full, or otherwise.

Mr. Kelley. How many men are you asking for the 84 that y

intend to keep in commission!

Captain WILLIAMS. I am asking for the 84 that we intend to ke in commission 2.579 men.

Mr. Kelley. That is an average of about 30 men per ship.
Captain Williams. Yes, sir; just about 30.

Mr. Kelley. How many men do you have on board the 61?

Captain WILLIAMS. We have on board 1,714.

Mr. Kelley. That is almost the same number per ship, or about Captain Williams. Yes, sir; it is about the same number.

Mr. Kelley. Now, as to the submarines to be kept in partial ommission, how many men are you asking?

Captain WILLIAMS. Four hundred and thirty.

Mr. Kelley. For how many ships?

Captain WILLIAMS. Twenty-seven submarines with 430 men. Mr. Kelley. How many men would that be on each ship?

Captain WILLIAMS. About 17.

Mr. Kelley. A little more than half of the complement of those in full commission?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. How many have you laid up now?

Captain WILLIAMS. There are 37 in partial commission.

Mr. Kelley. How many are on board those 37? Captain WILLIAMS. Six hundred and ninety-two.

Mr. Byrnes. That makes a total of how many?
Mr. Kelley. The number of men they are asking for submarines

would be 2,579 plus 430, or 3,009.

Now we will take up the three new light cruisers.

Captain Williams. For the three new light cruisers we are asking 1,257 men.

Mr. Kelley. What was the designed complement? Captain Williams. The complement was 419 men.

Mr. Kelley. I mean the original complement, as designed.

Admiral COONTZ. Three hundred and thirty-nine on June 28, but while that book was in press it was changed, on account of the guns, antiaircraft guns, etc., to 419.

DESTROYER TENDERS.

(See p. 306.)

Mr. Kelley. How many men do you require for the six destroyer tenders?

Captain WILLIAMS. Two thousand seven hundred and fifty-nine

Mr. Kelley. What are their names?

Captain WILLIAMS. The Altair, the Denebola, the Rigel, the Black **Hawk**, the Melville, and the Bridgeport.

Mr. Kelley. Give the complement of each one of these ships.

Captain Williams. For the Altair, 450; for the Denebola, 450; for the Rigel, 450; for the Black Hawk, 440; for the Bridgeport, 520, and for the Melville, 449.
Mr. Kelley. Making a total of 2,759?
Captain Williams. Yes, sir.

Mr. Kelley. Now let us have the number of men on those ships

on the 1st of February, by ships.

Captain WILLIAMS. On the Altair, 74; on the Denebola, 242; on the **Rigal**, 41, on the Black Hawk, 349; on the Bridgeport, 651; and on the Melville, 332.

Mr. Kelley. Read the complements of those two vessels that are

heavily undermanned there.

Captain WILLIAMS. The Altair, 450; and the Rigal, 450.

Mr. Kelley. Now, substitute those two figures for the similar figures shown for those ships on the 1st of February, and add up the column.

Admiral COONTZ. We have them mixed up a little. You want the complements they gave you, and you want them to make certain additions to them?

Mr. Kelley. There are two ships which evidently are manned with only a few men, one of them being the Altair and the other the Rigel.

Captain WILLIAMS. A third one is the Denebola.

Mr. Kelley. I am referring to the small numbers there.

Captain WILLIAMS. The number is 2,474.

Mr. Kelley. What did you say the complement of the Rigel was! Captain WILLIAMS. Four hundred and fifty.

Mr. Kelley. In this list you gave the Naval Affairs Committee it

is stated as 378.

Admiral Coontz. At that time she had not been made a tender. We are not getting rid of the Buffalo and the Dixie.

Mr. Kelley. You have increased the complement of the Rigel by

52 men ?

Admiral Coontz. Yes, sir; and the Altair by 181, and the Denebola by 200.

NUMBER OF REPAIR MEN CARRIED ON DESTROYER TENDERS.

Secretary Denby. I would like to have put into the record, if Captain Williams has it, what the actual complement of each ship is and how many repair men are attached to each of those ships. Those ships are floating repair shops, and I want to know what number of men are needed for repairing the destroyers.

Captain WILLIAMS. I will put that in the record.

Complement of personnel for destroyer tenders.

	Ship.	Repair.	Total.		Ship.	Repair.	Total.
AltairDenebolaRigel	316 316 316	134 134 134	450 450 450	Melville Black Hawk	262 316	187 124	440
Bridgeport	300	220	520	Grand total	1, 826	933	2,739

Secretary Denby. In other words, in addition to the men required; to operate the ships, there are men needed to conduct the repair work on the destroyers. They carry a lot of mechanics.

ADVANTAGE OF FLOATING REPAIR SHOPS.

Mr. French. Is that item also included in these figures we have touching the complements of the different ships?

Secretary Denby. No; because the men who operate the ships do not run the repair shops. These tenders are floating repair shops. Besides serving the destroyers in other ways, they make the repairs on them.

Mr. French. Would not these figures be met with in connection

with shore duty at some other point?

Secretary Denby. No; they would not. It simply means that as long as you have floating repair shops you can save an enormous nount of money. By having these floating repair shops to take ere of the repairs on these vessels, a lot of money is saved, because obviates the necessity of sending the ships to navy yards to have inor repair work done, because these tenders carry skilled mechanics long with them. All I want to know is how many mechanics are pried in addition to the crews.

Mr. OLIVER. To what extent have you been following that practice

the last year?

Secretary Denby. As completely as possible.

Mr. OLIVER. To what extent are you prevented from making rehirs, such as you are prepared to make with tenders of this kind, by rule requiring that where repairs amount to so much you must ring the vessels to navy yards and have them made, not by the crew, at by the employees of those yards?

Secretary Denby. I should not think very much. I think the limit

\$5,000, or something of that sort.

Admiral Coontz. I do not think there is any limit so far as these

nders are concerned.

Secretary Denby. I do not believe that applies in this connection. Admiral Coontz. That provision would not come into play here

Mr. OLIVER. Do you follow the same practice that you so successally followed abroad during the war?

Admiral COONTZ. Yes, sir.

Mr. Kelley. Just a word about the method of handling these tepairs. Suppose you have these floating shops along with your destroyers, and something happens to a destroyer which requires some repairs, have you not the entire crew on your destroyer to make those repairs, without carrying a special crew for repairs on these ships? Secretary Denby. They might not have the material with which

to make the repairs.

Mr. Kelley. I am talking now about men.

Admiral Coontz. They have men on board, but they have not a

regular machine shop.

Mr. Kelley. I am not talking about material now, but why do you want to carry two or three hundred men on a floating shop to repair a destroyer, when you have 113 men on the destroyer?

Secretary Denby. Many of these men are skilled mechanics, who

can come over and do the work.

Admiral Coontz. They have, of course, their own ordinary duties to perform, and many of these repairs are beyond their power to make. We have found, not only at home, but abroad, that we can save the Government hundreds of thousands of dollars in this way.

Mr. Kelley. Let us stick to the question I asked. Why could you not use the crew of the destroyer to make the repairs?

Admiral COONTZ. You can use them up to a certain point.

Mr. Kelley. It seems to me that you ought not to add 200 men to the complement of the ship, or to the total number required to run the ship, to make the repairs. That must be a pretty big machine shop.

Admiral Coontz. The way we did that abroad was the wonder of the foreign nations. I do not doubt but that Mr. Oliver went aboard one of those vessels. That method resulted in a wonderful saving to the Government.

Mr. Kelley. I am not finding fault with it, but I am trying to hold you down to this proposition: Why can not the men on the destroyers make the repairs?

Commander Hill. On a destroyer of this size there is located a machine shop consisting of a lathe, and that is all they can carry.

Mr. Kelley. But you have skilled mechanics on the destroyen

who could make those repairs, have you not?

Commander Hill. The destroyer's complement carries a certain number of machinists who are good machinists and who do spend on board practically all their time in making repairs that are within limits or within the power of the machinists on board the ships. In other words, there are lots of minor repairs, such as repairing pumps, little auxiliaries, etc., that can be done and are done every day on the destroyer itself. That work is sufficient to keep their whole force busy.

Mr. KELLEY. Why can you not use the men that are on the destroyer to do the repair work on the destroyer while at sea?

Commander Hill. When it comes to retubing a boiler, for instance, the case is different. They have boiler makers and fitters at the navy yard to make those repairs, but in this case the destroyer ties up alongside this repair ship, and they have boiler makers and fitter to do the work. They go on board the destroyer and retube the boiler.

Mr. Kelley. You are asking for 200 men on the ship in addition

to the ship's complement.

Commander Hill. Every one of those people follow a special trade, such as pattern maker, molding man, casting man, etc. They make their own castings, or they make the castings for parts of these ships up to a certain tonnage. They have planned it so as to practically keep every single destroyer we have in the Navy out of the navy yards, where there is a big overhead cost for repairs, and they will do every bit of it with the destroyer tenders, except where it is a case of docking the vessel. It will save the Government hundreds of thousands of dollars to use these mechanics on the tenders where there is no overhead, and where the mechanics do not get extra pay for overtime. Here you are not carrying a big overhead cost for a big establishment in the making of repairs.

Mr. Kelley. The following are the complements put down with the destroyer tenders as reported to the Committee on Naval Affairs on February 1, 1922: On the Altair, 269; on the Black Hawk, 440; on the Bridgeport, 520; on the Buffalo, 400; on the Denebola, 250; on the Dixie, 474; on the Dobbin, 341; on the Melville, 449; and on the Rigel, 398. We have put all of the facts in the record about the num-

ber, but there may be some discussion about the numbers.

DESTROYER TENDERS.

(See p. 303.)

Admiral COONTZ. I think it should be stated that the Buffalo and Dixie are at the present time in commission, and are to be relieved by two of these vessels that have since been assigned to proper complements.

Mr. Kelley. So there will be only six in all?

Admiral COONTZ. Yes, sir.

Secretary Denby. There is one other thing that I think should go to the record in that connection: The figures reported on February to the Committee on Naval Affairs were the complements of the st two ships, not including the repair men, because they had not tten their repair men on board at that time. They were taken er from the Shipping Board, and had not been manned with their pair forces.

Mr. Kelley. The number of men actually on board in the case of • Altair and the Rigel obviously is very insufficient; the number in Le case being only 74 and in the other only 41. In this case we will

at down in our figures the full complements.

Secretary Denby. The Altair's complement is given as 269. the complement of the ship, and the additional men are the mainists and mechanics.

Mr. Kelley. What do you make that figure showing the actual

imber on board, with those two corrections?

Captain WILLIAMS. Two thousand four hundred and seventy-four. Mr. French. Do these figures include repairmen on any or all of

ese ships?

Admiral Coontz. The figures which Mr. Kelley has brought out are tirely to our satisfaction. In the case of the Denebola, she has been ranged from 250 to 450 men, which makes a difference of 200, which ould make that 2,474, which is what should stand.

Mr. Kelley. The only dispute about any of the ships is as to those

Admiral Coontz. Yes, sir.

Mr. Kelley. But have not yet been in commission as destroyer

Admiral Coontz. Yes, sir.

SUBMARINE TENDERS.

Mr. Kelley. Now the submarine tenders. Give them by name

Captain WILLIAMS. The Beaver, the Bushnell, the Camden, the Fulon, the Rainbow, the Savannah, and the Canopus.

Mr. Kelley. Give us the number of men you are asking for each

hip.

Captain Williams. We are asking: For the Beaver, 292; for the Bushnell, 195; for the Camden, 344; for the Fulton, 134; for the Rainlow, 297; for the Savannah, 338; for the Canopus, 282; a total of 1,882.

These ships had on board on February 1 as follows: Beaver, 300; Bushnell, 179; Camden, 378; Fulton, 131; Rainbow, 322; Savannah, 108: Canopus, 486; a total of 2,104.

Mr. Kelley. The numbers do not seem to agree with the printed

Admiral Coontz. You have one short, the Canopus, which was exlained the other day.

Mr. Kelley. But even then the numbers do not quite agree, but understood you to say you are asking for 1,882. Captain WILLIAMS. Yes, sir.

HOSPITAL SHIPS.

Mr. Kelley. Now the hospital ships.

Captain WILLIAMS. They are the Mercy and the Relief, and we asking a total of 709 men.

Mr. Kelley. How many have you on board now?

Captain WILLIAMS. We are asking for the Mercy 348 men for the Relief 361; we have on the Mercy at the present time men and on the Relief 411 men, a total of 679 men.

GUNBOATS.

Mr. Kelley. Read the list of gunboats you are asking to

commissioned next year.

Captain Williams. The Elcano, Monocacy, Palos, Pamp We are asking i Quiros, Sacramento, Villalobos, Wilmington. total of 639 men.

Mr. French. Does the Asheville come out?

Admiral Coontz. She comes on another list and we will con her later.

Mr. Kelley. That does not make 14.

Captain WILLIAMS. They said 14 but some of those come there are 6 now training reserves; they would come out, as should be 8 instead of 14.

Mr. Kelley. Then the number of gunboats is eight?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. With a total of how many?

Captain Williams. Six hundred and thirty-nine men. Mr. Kelley. And how many are upon those boats now?

Captain WILLIAMS. Six hundred and fifty on board of them Mr. Kelley. That is for eight gunboats?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. I think you had better give the number on

one and then we will have the record complete.

Captain WILLIAMS. We have on board the Elcano, 87; Mon-48: Palos, 55: Pampanga, 30: Quiros, 47: Sacramento, 176; Villa 56; Wilmington, 151.

Mr. Kelley. That totals 650, does it?

Captain WILLIAMS. Yes, sir.

SPECIAL DUTY CRAFT.

Mr. Kelley. Now the special duty craft. You have them a patrol vessels in one place and in another place you call them s duty craft, including the Mauflower list.

Captain Williams. For the special duty craft we are askin men, as follows: Mayflower, 160; Sylph, 32; Osceola, 34; No. 66; Potomac, 42; Tadousac, 39; Vixen, 72; Scorpion, 132.

Mr. Kelley. You have an entirely new list.

Admiral COONTZ. It is on page 203, at the bottom.

Captain Williams. Pensacola, 110: Napa, 39; Ontario, 54;

calm, 39; a total of S19 men.

Mr. Kelley. Let us see whether we can straighten these ou the Mayflower on that list?

al COONTZ. Yes, sir. ELLEY. One hundred and fifty-nine men? al COONTZ. On board. ELLEY. You are asking for 160? in WILLIAMS. The Mayflower heads the list and we are or 160. ELLEY. Is the Vixon there? in WILLIAMS. The Vixon is here; yes, sir. ELLEY. With how many men? in WILLIAMS. The Vixen, 72 men. miley. The Sylph? in WILLIAMS. Thirty-two men. ELLEY. The Nokomie, 66 men; the leabelary DENBY (interposing). She is not on that list. in WILLIAMS. She is not included in this special-duty craft. ELLEY. We could get along much better if we had these lists

ary DENBY. How many are on board the Isabel? lander LEAHY. She had on board 94 men. ary DENBY. And we are asking 83. in WILLIAMS. We now have on board these ships, the May-59; Sylph, 32; Osceola, 36. al COONTZ. You want the Nokomis next? in Williams. The Nokomis, 86. ELLEY. Sixty-six, is it not? ary DENBY. Sixty-six are asked for. in Williams. The Potomac, 42. al Coontz. You do not want the Potomac; you want the

in Williams. She is on our list. ELLEY. How many for the Vixen? in Williams. The Vixen, 72. I have given what we are or and this is the number we now have on board: Scorpion, usacola, 111; and Napa, 40. al COONTZ. Mr. Kelley does not want that. ELLEY. How many for the leabel? That is the only one left. in Williams. Eighty-three. ELLEY. Let us add to those the others that make the 12. e the other seven? in Williams. The Mayflower you have, the Sylph you have, mis you have, the Tadousac you have. ELLEY. No. in WILLIAMS. The Vixen you have. ELLEY. What are the others? LIVER. What about the Tadousac? Where is she? al Coontz. We had it at the same place; it is at the bottom 203 on your other list.

al Coontz. That is her job; she is a special duty craft and Haiti. Several of them are tugs. ELLEY. Is that a tug?

ELLEY. The Osceola is down here as a fleet tug, and she is at

al Coontz. Yes, sir.

Mr. Kelley. You see, we have given you quite a long list of & tugs, 29.

Admiral COONTZ. We will come to those and be able to straight

them out by name.

Mr. Kelley. What about the Osceola?

Captain WILLIAMS. The next one is the Potomac.

Mr. Kelley. Where does she come in ?

Captain WILLIAMS. I think you will find her among the tugs. Mr. Kelley. Then that is another tug. Why do you not keep of the tugs together?

Admiral COONTZ. These are vessels that are station ships.

Mr. Kelley. All right; what are the others? Captain WILLIAMS. Have you the Scorpion?
Mr. Kelley. No. Where is she?
Captain WILLIAMS. She is at Constantinople.

Mr. Kelley. I mean on what list is she? Admiral Coontz. She is a special duty craft.

Mr. Kelley. Let us see whether we can find the rest of these

ls. What are the others? Is the Scorpion a tug? Admiral COONTZ. No; she is a station ship at Constantinople she has been carried as a special duty craft all the time. You! the Osceola, the Potomac and the Tadousac.

Mr. Kelley. I have not the last one, the Tadousac; where is sl

this list?

Commander HILL. You will find her on page 30-A.

Mr. Kelley. That is a list of tugs, too? Commander Hill. Yes.

Mr. Kelley. What are the others?

Captain WILLIAMS. You have the Vixen, the Scorpion and Pensacola.

Mr. Kelley. The Pensacola?

Captain WILLIAMS. Yes.

Mr. Kelley. Is that a tug?

Captain Williams. No; she is a cargo carrier.

Mr. Kelley. She is a cargo ship?

Captain Williams. Yes. Mr. Kelley. At Guam?

Captain WILLIAMS. She is on special duty.

Mr. Kelley. Then we can cut her off the cargo ship list.

Admiral Coontz. Yes; if you put her on this list.

Mr. Kelley. Is that all?

Captain WILLIAMS. The Napa.

Mr. Kelley. Where does that come in? Captain Williams. That is a tug.

Commander HILL. She is on page 30.

Captain WILLIAMS. The Ontario, another tug, and the Monte a tug. I have 12 on my list.

Mr. Kelley. I have 13, Captain.

Captain WILLIAMS. May I call them off again: Mayflower, Osceola, Nokomis, Potomac, Tadousac, Vixen, Scorpion, Penn Napa, Ontario, Montcalm.
Mr. Kelley. That covers all but the Isabel.

Captain WILLIAMS. You are going to get mixed up on this vou include her.

ELLEY. Where does the Isabel belong? ral Coontz. Right there. nander Leahy. We have not reached her yet. ELLEY. Where is she? nander LEAHY. I will find her for you. LELLEY. We have one more ship on here than the captain, and ral COONTZ. Yes. ELLEY. How many are asked for the Osceola? in WILLIAMS. I am asking for 34. ELLEY. The Potomac? in WILLIAMS. Forty-two. ELLEY. The Scorpion? in Williams. One hundred and thirty-two. ELLEY. The Tadousac? in WILLIAMS. Thirty-nine. ELLEY. The Pensacola? in WILLIAMS. One hundred and ten. ELLEY. The Napa? in WILLIAMS. Thirty-nine. ELLEY. The Ontario? in WILLIAMS. Fifty-four. ELLEY. The Montcalm? in Williams. Thirty-nine. ELLEY. How many does that make altogether? in WILLIAMS. You have not called the Mayflower or Sylph. ELLEY. I have those, and we will just foot that up. total for the whole thing? in WILLIAMS. Eight hundred and nineteen asked for; but s not include the Isabel. ELLEY. Now give us the number on board. al Coontz. Nine hundred and seventy-five. ary Denby. Have you included the *Isabel*? al Coontz. Yes, sir; with 39 men. ary Denby. But you do not include the *Isabel* in the 819? al Coontz. No, sir. You ask for 39 on the Isabel, do you

in Williams. Eighty-three.
ary Denby. That makes a total asked for of 902, which
the Isabel.
al Coontz. And 975 on board, including the Isabel.
ELLEY. And how many asked for?
ary Denby. Nine hundred and two.
n Williams. We have 958 on board.
ELLEY. They do not vary greatly from the number you

WILLIAMS. With the Isabel in that will make 902. ELLEY. Nine hundred and two that you are asking for? n WILLIAMS. Yes, sir. ELLEY. The number of fleet tugs on the list submitted the y was 29. Six of those have been transferred to the list I duty craft, leaving 23 under the head of fleet tugs. This ce the number of men required for fleet tugs from 1,131

to 884 and increase the number of men required for special duty cut by 247, so far as the tugs are concerned, and then there are two other vessels added to the special duty craft, the Scorpion and the Pens cola, with a further additional number of men of 242, making the special duty craft total 902.

REPAIR SHIPS.

Now, the repair ships. Please give the names of the repair ship! Captain Williams. We are asking for the Prometheus, 430, and

the Vestal, 430, a total of 860 men.

Mr. Kelley. How many men have you on board of each now!

Captain Williams. They have on board the Prometheus, 370, and the Vestal, 357, totalling 727.

STORE SHIPS.

Mr. Kelley. Three store ships?

Captain WILLIAMS. We are asking for the Arctic, 188, the Bridge 189 and the Rappahannock, 268, a total of 645. They have on board now the Arctic, 220, the Bridge, 203, and the Rappahannock, 235, a total of 658.

FUEL SHIPS.

Mr. Kelley. Four colliers?

Captain WILLIAMS. We are asking for the Orion, 164; the Nereus, 164; the Jason, 164; and the Proteus, 164; a total of 656.

Mr. Kelley. How many have you on board of each of those vessels?

Captain WILLIAMS. We have on the Orion, 209; the Nereus, 141; the Jason, 152; and the Proteus, 153; a total of 655.

Mr. Kelley. Ten oilers?

Captain WILLIAMS. We are asking for the Arethusa, 78; Brason, 120; Cuayama, 120; Kanawha, 120; Natchez, 101; Pecos, 120; Patoks, 91; Ramapo, 91; Sapelo, 91; Trinity, 91; a total of 1,023. There are on board: Arethusa, 78; Brazos, 112; Cuyama, 95; Kanawha, 101; Natchez, 118; Pecos, 107; Patoka, 99; Ramapo, 119; Sapelo, 16; Trinity, 101; a total of 946.

Admiral Coonty. I think there should be a note made there that the Sapelo is about to go into commission or to replace something else.

AMMUNITION SHIPS.

Mr. Kelley. The ammunition ships come next.

Captain WILLIAMS. We are asking for the ammunition ship Nitro 177, and the ammunition ship Pyro, 177; total of 354.

Mr. Kelley. Is that the number they have on board now?

Captain Williams. The Nitro now has on board 217 and the Pyro

212; total of 429.

CARGO SHIPS.

Mr. Kelley. Now the cargo ships, eight of them. There will be seven, because you have taken the Pensacola out.

Saptain WILLIAMS. Kittery, 87; Newport News, 113; Bath, 88; pella, 91; Sirius, 91; Vega, 91; Beaufort, 72; a total of 633. They re on board: Kittery, 113; Newport News, 138; Bath, 112; Capella, Sirius, 41; Vega, 81; Beaufort, 71; a total of 637.

TRANSPORTS.

Mr. Kelley. Now the four transports?

Captain Williams. Henderson, 397; Argonne, 222; Chaumont, 214. Mr. Kelley. Those are the only three transports you have except Hancock, which is a shore-station vessel?

Secretary DENBY. And the Regulus.

Mr. Kelley. She is out of commission. Secretary Denby. She is just coming in.

Mr. Kelley. The three transports total how much? Captain WILLIAMS. Eight hundred and thirty-three.

We have on board the Henderson, 401; Argonne, 211; Chaumont, 0; a total of 852.

Secretary Denby. The Regulus is not out of commission; she is st coming in.

Mr. Kelley. When she comes in she will take the place of one of ese ?

AIRCRAFT CARRIERS AND TENDERS.

Aircraft carrier Langley?

Captain WILLIAMS. We are asking for the aircraft carrier Langley,

Mr. Kelley. How many has she on board now? Captain WILLIAMS. Two hundred and sixteen.

Mr. Kelley. For the aircraft tender Wright, how many are you

Captain Williams. We are asking for the two aircraft tenders roostook, 250, and the Wright, 286; a total of 536. They have on card now, the Wright, 390, and the Aroostook, 240; total of 630.

Mr. Kelley. These two you have just named, the Aroostook and

be Shawmut, will be mine layers?

Admiral Coontz. The aircraft tenders are the Aroostook and the The aircraft carrier is the Langley. They are entirely sepa-Vright. ite things.

Mr. KELLEY. You said the other day that the Aroostook was with e Pacific Fleet and was to be replaced as an aircraft tender by the angley and become a mine layer.

Admiral Coontz. If I said so I will stand by it; I do not remember. know that one vessel is to relieve the Baltimore, which goes out of mmission.

Mr. Kelley. That gives you one aircraft carrier, the Langley, and e aircraft tender, the Wright, and two mine layers?

Admiral Coontz. Yes, sir; the Baltimore and Shawmut.

Mr. Kelley. It figures out about the same.

Captain WILLIAMS. We are asking for one mine layer with 369 menawmut.

MINE SWEEPERS.

Mr. Kelley. Ten mine sweepers; have you a list of those? Those tugs again?

Captain WILLIAMS. No, sir: they are mine sweepers. Captain WILLIAMS. Ten sweepers, 54 men each, 540 men.

Mr. Kelley. Those are tugs?

Admiral Coontz. I think each one of those is a tug. We reduced those from 16 to 10.

Mr. Kelley. They carry 540 men?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. What else have you?

SHORE BASE SUBMARINE TENDERS.

Captain Williams. The shore-base submarine tenders, a large item.

Mr. Kelley. What do you want with shore base submarint tenders?

Admiral COONTZ. If you want to go into that, I should like to see

for Captain Day.

Mr. Kelley. Admiral, you have here an item calling for five shows base submarine tenders, requiring 2,003 men. This seems to be addition to the seven submarine tenders already requested in another place and requiring 1,882 men. This would make a total of 3,885 men to take care of submarines, both by means of shore-base tenders and tenders that go with the submarines to sea, and this is apparently in addition to any force that may be used in the navy yards for the repair of submarines. Please explain this item.

Admiral Coontz. The so-called shore-base submarine tenders are located at the following points: At Coco Solo, Isthmus of Panama; Hampton Roads, San Pedro, Pearl Harbor, and New London, and the number of men attached to these tenders is as follows: New London, 500: Hampton Roads, 254: Coco Solo, 409; San Pedro, 456; and Pearl Harbor, 400. There are no navy yards at New London or at Hampton Roads base, although there is a navy yard near by at Norfolk. There is no navy yard at Coco Solo, and there is no navy yard at San Pedro, the nearest navy yard to San Pedro being at Mare Island, Calif. At Pearl Harbor there are no quarters on shore for the submarine men.

Mr. Kelley. What do you mean by the submarine men—the mechanics?

Admiral COONTZ. Yes, sir.

Mr. KELLEY. Civilians?

Admiral Coontz. No, sir: not civilians. I mean naval people.

Mr. Kelley. Enlisted men?

Admiral Coontz. Yes, sir. If I am correct in my recollection there are a few civilian workmen at New London, none at Coco Solo and a few at San Pedro.

Mr. Kelley. How does that happen?

Admiral Coontz. Because these enlisted men that we are talkin about do the work and carry it on with, I think, very few exception Captain Williams. For a long time civilians were forbidden

go on board submarines.

Mr. Kelley. That is true of any warship, without special permi sion.

Admiral Coontz. The ideal arrangement would be to have enoughtenders to take care of all of the first line submarines, but that

spracticable on account of the expense involved both in the number ships and the crews to man them. An expedient has been resorted by establishing so-called shore-based submarine tenders at certain rategic points. These have the same facilities, so far as practicate, and the same organization as mobile tenders. For the purposes

administration they are considered as mobile tenders that have sen stationed at those points and become fixed on shore. They are, as in the case of mobile tenders, living quarters, messing cilities, sick quarters, supplies of food, clothing, equipment, machine tops to repair the submarines, power plants to charge the batteries ad air tanks, for the heating and lighting of the quarters, for the maning of the machine shops, etc., storage for spare parts, etc.

Mr. Kelley. Admiral, it will not be necessary to read that entire

atement into the record.

Admiral COONTZ. I will ask the director of submarines, who is ow on his way here, to further explain this matter. I will admit this number seems excessive to me, but I believe that he can be roughly explain it, because he is thoroughly familiar with the tuation.

Mr. Kelley. We have a big plant at New London, on which we pent millions of dollars.

Admiral Coontz. Yes, sir.

Mr. Kelley. Why should we have a tender hitched up alongside

Admiral Coontz. The tender carries all the accounts, and attends to submarines when they are exercising in adjacent waters.

Mr. Kelley. It seems to me that we spent six or seven million ollars on that plant.

Admiral Coontz. I want the director to explain that fully to you.

Mr. Kelley. It strikes me that this is a mistake.

Secretary Denby. I am frank to say that I must be shown in gard to that. The only question is whether the number requested excessive, or not.

Mr. Kelley. Captain Day, there is an item here covering 2,003 ien at five shore-based submarine tenders, and I want you to tell

s about it.

Captain Day. Yes, sir. The idea, if we could get them, would be have mobile tenders for all submarines, but we have not, and, nerefore, they are based on shore. The arrangement of our organiation, as far as possible, is to have the people at the submarine ases to act as though they were attached to the mobile tender which itied up there and spread out on shore.

Mr. Kelley. How did they happen to do that?

Captain DAY. Because they have to have some place to eat and leep.

NEW LONDON, CONN., SUBMARINE BASE.

(See p. 326.)

Mr. Kelley. At New London you have a big plant costing six or even million dollars.

Captain DAY. That was a war-time growth. They had big experiuental plants there, including all sorts of things.

Mr. Kelley. Who does know about them?

Captain DAY. All of that has been discontinued. It was a warme activity which has ceased. Mr. Kelley. They have 570 men up there?

Captain Day. Yes, sir.

Mr. Kelley. That would be enough to man 20 or 30 submarines?

Captain Day. Yes, sir; it would be enough to man two tenders.

Mr. Kelley. How many tenders are based up there?

Captain Day. Just now there are approximately 15 submaring based at New London.

Mr. Kelley. Does it take 570 men to take care of 15 submarines! Captain Day. It takes 600 men in a mobile tender to take care them. It requires less men with a shore-based tender than with mobile tender.

Mr. Kelley. I know; but you have mobile tenders.

Captain DAY. No, sir.

Mr. Kelley. You have made arrangements for seven, and you

have only 61 submarines that are in operation.

Captain DAY. Sixty-one of the first line and 27 of the second line. A part of them are up there, and they are in operation. marine base gives them shelter, food, medical attendance, repen, electrical power for charging the batteries, compressed air, takes can of the storage batteries, and that sort of thing.

Mr. Kelley. Do they operate the submarines?

Captain Day: No, sir; the submarines are operated by their own crews.

Mr. Kelley. What does the crew do when they come back in ! Captain DAY. They go to work and get ready to go out again. The Diesel engine requires perpetual overhauling, and the crew takes care of minor repairs, but at these submarine bases they keep repair gangs to do work that the crew can not do.

NUMBER OF MEN REQUIRED TO OPERATE AND REPAIR SUBMARINES.

Mr. Kelley. You see what it is you are asking for. You are asking for 3,800 men to take care of these ships that require only 3,009 me to operate them.

Captain Day. Yes, sir.
Mr. Kelley. There must be something wrong about that.

Captain Day. No, sir; every nation in the world that has submarines does the same thing. If we had these shops with mobile tenders it would take half as many men again, roughly. Each tender averages about 300 men.

Mr. Kelley. You do not mean to say that it would take 60 men

keep a submarine in repair?

Captain DAY. In repair and in operation; yes, sir.

Mr. Kelley. I mean in repair alone. Secretary Denby. Plus the crew?

Captain Day. No, sir; counting the crew.

Secretary Denby. I am frank to say that these appear to be extroordinary figures to me. I realize, of course, that the submarine is the most extraordinary craft in the world, and that it requires a great deal of attention. How many submarines are based at New London!

Captain Day. Fifteen.

Secretary Denby. What is the number of men involved?

Captain Day. There are eight boats with 21 men, four with 34 men, and three with 20 men.

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// with 6 O-boats.
and what is your
to send?

Secretary Denby. There is an extraordinary disparity between the number of men required in this service and the number required in any other branch of the service.

Captain Day. We have worked out the difference between the mobile tender and the shore base. On the tender affoat 49 men at

required for each submarine, and this average is 45.

Mr. Kelley. There must be something wrong about those figure showing 49 men on a tender for each submarine. The officers told yesterday that they carried one around the world without being lai up anywhere.

Captain DAY. They can run a month.

Mr. Kelley. They were hardly ever out of commission. you come in and tell us that more men are needed to keep them repair than are required to operate them every day in the year.

Secretary Denby. Of course the station must be operated if it

to be kept in running condition.

Mr. Kelley. There must be something wrong somewhere.

Captain DAY. People can not live on those craft indefinitely; the can live there while they are running; they can live there a month but at the end of that time they must have some place to eat an sleep.

Mr. Kelley. I am not finding fault with that, but I am finding fault with the number of men apparently necessary to keep in repair

ships that do not get out of repair very much.

Captain Day. You have to have men to take care of the subma Take the Canopus; she has 333 rines and to take care of the tender. men, and she tends eight submarines.

Mr. Kelley. It looks as though you are planning to be repairing

them all the time.

Captain DAY. They not only keep up the repairs on the subme rines, but they have to run their own ships; it takes a crew to ru one of the ships.

Mr. Kelley. I know it does; but either you were wrong yesterds

or wrong to-day; I do not know which.
Captain Day. No. sir; I am sorry my stories do not seem to agree Mr. Kelley. My statement yesterday was that it was my impresion that these ships needed a great deal of repairing and were law up a great deal of the time; you said that was not so, but that the were running nearly all the while, and now you come in with the statement that it takes 48 men—was that the number?

Captain Day. Forty-eight or forty-nine.

Mr. Kelley. All the year around to repair every submarine in the

Navv.

Captain Day. No: not only to repair them, but to furnish living quarters. For instance, they will go out for a week; at the end of that time they will come back, and it will take three days to over haul them, and we must have men there to do that.

Mr. Kelley. They go out a week, and then they are laid up a week! Captain Day. Laid up three or four days; they are tied up.

Mr. Kelley. For repairs? Captain Day. For overhauling.

Mr. Kelley. That does not tally with what you said yesterday about their being in shape to run practically all the time.

aptain Day. We will take it the other way; they run for a month, then they are laid up for such repairs as are necessary, and we st have the men there to make the repairs.

fr. Kelley. I think you are proving conclusively that there is necessity whatever for crews for all of these ships.

aptain Day. I am sorry you take it that way, sir. But there is ship in the world that just keeps on running indefinitely. One of best cases in the world was the transport I had during the war; would run eight days full tilt, then come in for eight days, and rybody on the Hoboken docks came aboard to do things to the ines.

Ar. Kelley. But you have another group on shore to do those

ngs to her, larger than the one you have on the ship.

Laptain Day. We had three times as many to come aboard and repairs there than we had in the engineers' force. Men were ing over each other in the engine room and thought they were ng a wonderful piece of work to keep her going.

You are asking for \$2,000,000. Why do you not

e civilians?

Captain DAY. It would cost more than it would to do it this way. at has been brought up and thrashed out time and again.

Mr. Kelley. How many repairs do you have made at the navy

Captain Day. Practically nothing in the way of repairs at navy rds, because they do their own repairs.

Mr. Kelley. Who do their own?

Captain Day. The submarines and the base tenders.

Admiral Coontz. I do not recall any submarine going to a navy

rd for a long time.

Captain Day. They have gone in for alterations, but for repairs actically nothing. The alterations were authorized as a result of perience during the war have not yet been finished, and for that rpose the submarines are in navy yards, but the repairs in the navy rds are very slight.

Mr. Kelley. How long have you had charge of the submarines?

Captain Day. Nine months, sir.

Mr. Kelley. Do you have charge of their operation or just their pairs?

Captain DAY. I am aid to Admiral Countz in operations.

Mr. Kelley. Who had charge of it before you? Captain Day. Capt. G. W. Williams, U. S. N.

Mr. Kelley. This captain?
Captain Day. No; he is now the captain of the New Mexico.
Mr. Kelley. How do you group these ships for operation?

Captain DAY. They are grouped by classes as far as the capacity the tenders will permit. For instance, 8 H-boats are in one ision in the Pacific and 8 K-boats in one division on this side.

Ir. Kelley. I mean, how many do you send with the fleet? aptain Day. We send as many divisions as we can get out with fleet. At the present moment we have the Savannah with 10 oats, the Fulton with 2 T-boats, and the Bushnell with 6 O-boats.

Ir. KELLEY. How many do you send along and what is your

In what way do you determine how many to send? aptain DAY. So far we have been sending all we can.

Mr. Kelley. And if you had 100 you would send them all? Captain DAY. No.

Mr. Kelley. Well, you want 86.

Captain DAY. No, sir; they do not all go to the fleet; there are of them at Manila, 10 at Hawaii, 14 at the Canal Zone.

Mr. Kelley. You have seven tenders that take some of them

Captain DAY. Yes, sir.

Mr. Kelley. So they must be with the fleet?

Captain DAY. They should be with the fleet. Of those sev tenders two are now at Cavite; they took 10 boats out and c tender is coming back.

Mr. Kelley. Two tenders at Cavite?

Captain Day. Yes; two tenders went out with 10 boats and c

of them is coming back just as soon as she gets the submari established there, and the other will have to stay. On this side have three tenders with the fleet, the Savannah, the Bushnell, a the Fulton.

Mr. Kelley. Can they keep up with the fleet?

Captain Day. No, sir; they can make about 10 knots.

Mr. Kelley. Then why do you say they are with the fleet?

Captain Day. They are operating with the fleet; they are n with the fleet at Guantanamo. The submarines can keep with t fleet, but the tender either has to go ahead and meet the fleet follow on and pick them up.

Mr. Kelley. And they use them in maneuvers, in protecting t

ships, and all that?

Captain DAY. Yes, sir.

Secretary Denby. There is one thing that ought not to be ov looked in this connection, and that is that many of these men, be on the mobile tenders and shore-base tenders, are not strictly rep men at all.

Mr. Kelley. They are housekeepers.

Secretary Denby. But serve on the ships to operate the sh at sea.

Admiral Coontz. They do all the cooking and all the baking. Captain Day. Cooking, baking, and cleaning; for instance, t engineer and repair gang at New London, as I recall it, has 192 m that is, to run the power plant at the base and do the repairs on t submarines.

Mr. Kelley. Then the submarines are not there very much becau

the fleet is all down the other way?

Captain Day. The fleet is now, but we have what we call experimental division up there, consisting of eight boats, and for S-boats running engineering trials.

Mr. Kelley. That was not very much of a place to build a s

marine base, was it!

Captain Day. Yes; it is a first-rate place.

Mr. Kelley. With the cold weather in the winter?

Captain Day. There is cold weather anywhere on this coast in winter.

Mr. Kelley. Well, not so much as at New London. You h another base at Hampton, have you not?

aptain Day. A little one. I would rather be at New London in winter than at Hampton Roads. Then the beauty of the thing New London is that when they get out of the river they have p enough water in which to operate, while at Hampton Roads y have to go out 40 miles to get deep enough water.

Ar. Kelley. But if anything happened to one of them you would

re to go 1,000 miles or more to your base?

Captain Day. No; she would go to the nearest place.

Mr. Kelley. I should think the nearest place would be down here Hampton Roads.

Captain Day. It would depend on where the fleet happened to be.

e fleet is north in the summer.

Mr. Kelley. And south in the winter.

Captain Day. Yes, sir. Another thing is that we have a subrine school at New London. The submarine service is different anything else; a man can not jump into a submarine and run he has to get some instruction and training first.

Mr. KELLEY. You can not jump into any ship and run it.

Captain Day. No; but a man who knows surface craft can jump o one and can very soon operate, but a man can not jump into a bmarine and do that.

Mr. Kelley. I doubt whether a man on a surface ship could

np into a battleship and run it.

Captain Day. But a man who knows a battleship can come nearer nping into a battleship and running it than a submarine, because submarine is a different sort of business; while with a battleship nan is used to the same sort of business because he has been in it fore. However, on a submarine they have to deal with storage tteries, air compressors, and Deisel engines, and a Deisel engine something that nobody except the submarine service has very **ich** to do with.

Secretary Denby. Nobody seems to want to have much to do th the submarine.

Captain DAY. I am sorry to say they do not want to have much do with it.

Mr. Kelley. Have you something further to say about these 100 men for the shore submarine base at New London?

DISTRIBUTION OF PERSONNEL AT NEW LONDON BASE.

Captain Day. You asked about what the men at New London did, d I have the details as to that station. And, by the way, they have n brought down from 2,700 to 500.

Mr. Kelley. What is the use of talking about that, because that

s during the war.

Captain Day. Power-plant operation, 20 men. That is a big power nt. with four boilers, air compressors, generators, etc.; machine p. 25 men; submarine repair force, 10 men; boat repair party, 6 1: coppersmith and ship fitter shop, 21 men; foundry, 4 men; tern shop, 2 men; carpenter shop, 9 men; engineers' office, 3 men; tery overhaul shop, 18 men; electrical shop, 7 men; radio shop, en: 35-foot motor boats. 28 men; 50-foot motor sailors, 10 men; 40-foot motor sailors, 8 men; blacksmith shop, 3 men; garager force, 6 men; chauffeurs, 10 men.

Mr. Kelley. How many?

Captain DAY. One for each truck and one for each passenge We could spare 2 men of that number out of the 500; optical sh men; gyro compass shop, 2 men; torpedo-repair force, 18 men; have something like 300 torpedoes to keep in condition; assista office of day on deck, 5 men; sail locker, 3 men; signal station, 5 Another 5 men can be spared.

Secretary Denby. Do you mean spared from the 500?

Captain Day. Yes; we have spared 7 so far; mess hall, 40 r that is, taking care of the messes of the submarine crews and marine plant: 1 cobbler, 2 tailors, 3 barbers.

Mr. Kelley. Do you furnish a barber for the boys up there Captain DAY. Yes; but they pay for their haircuts and s this gives them a chance to get them. Brig, 7 men; night patrol-

Mr. Kelley (interposing). That is pretty elaborate, is it no

furnishing of barbers?

Captain DAY. It is done on every ship in the service, sir. S at main gate. 4 men; wardroom mess, 36 men; cabin mess, ; commissary store, 6 men; canteen, 2 men; payrolls, etc., 7 mer ply department—that is, yeomen, storekeepers, gunner's mate 26 men; morale department, 2 petty officers; printing shop, and personnel officers, 5 men.

Secretary Denby. What does the print shop do?

Captain Day. It does the printing for the station, for the work, and such work as they have to do for the boats and the It is all necessary work and that was taken up with th Committee on Printing and allowed.

Mr. Kelley. They took your judgment about that, I prest Captain Day. Yes, sir. Yeomen for the submarine div 4 men each. Then for the school, 26 men under instruction for to submarines.

Mr. Kelley. Twenty-six men undergoing instruction?

Captain Day. Yes.

Mr. Kelley. That is about half enough for one ship?

Captain Day. Yes; but these men are studying specialtie electrical engineering, 5 in submarine torpedoes, 9 in mec engineering, and 7 in laboratory upkeep.

Mr. Kelley. Admiral, do you remember about this pl New London? Is this not quite a white elephant?

Admiral Coontz. I will be perfectly frank and say I have seen it but once; I have never gotten the opportunity to go t Solo and I have not visited the one at Hampton Roads nor the the Hawaiian Islands. I have not been in the submarine b for about 12 years and I simply have not had time to go arou look at them. I have been out of town but twice, in I do no how many months, and have not had the chance. I would go over the plant: I would like to have everybody go over the and I think Captain Day would, too; and if there is anything with it we would like to find it out and remedy it.

ALLOCATION OF SUBMARINES FOR 1923.

Mr. Kelley. This plant costs \$3,461,942.44. Give us the distrioution of the submarines, Captain, as planned for next year.

Captain DAY. Manila, 10 S-boats; Hawaii, 19 R-boats; San Pedro,

12 old boats of the H and L class.

SAN PEDRO SUBMARINE BASE.

Mr. Kelley. We have no submarine base at San Pedro, have we? Captain Day. Yes, sir.

Mr. Kelley. But it is one we do not own.

Captain Day. Yes.

Admiral Coontz. It is a free base.

Secretary Denby. Did we do much building there?

Captain Day. No; it is an adaptation of what was there on the ier; they had a great big freight shed and a big two-story building n the end of the pier.

Secretary Denby. And it did not cost very much to convert it?

Captain Day. Not much.

Secretary Denby. But we do not own it?

Captain DAY. No, sir.

Mr. Kelley. How much have you spent at San Pedro, Mr. Reed?

Mr. Reed. \$190,000 for improvements.

Mr. Kelley. How did we get in there?

Admiral Coontz. We got in there unquestionably during the war. Mr. Kelley. It is your intention to keep that up this coming year? Admiral Coontz. Yes, sir.

Mr. Kelley. Why do you not go down to the other place where

ou have shops?

Admiral Coontz. The one particular reason is that when you get itside of San Pedro you can dive into deep water inside of 20 or minutes, while at San Diego you know the number of miles you ave to go to get out to deep water, so that San Pedro means a great wing in time and everything else. It has been gone into by a imber of boards and was gone into by the House and Senate comittees a year ago, and they unanimously reported in favor of keepg San Pedro.

Mr. Kelley. Have you an option on the land?

Admiral Coontz. We either have an option on the land or they are fering a large amount of land for \$1.

Mr. Kelley. Is it a steep and rocky shore there?

Admiral Coontz. A part of it is on the beach level and the rest is obably as high as this room and then there is a level place.

Mr. Kelley. You will have to grade it?

Admiral Coonty. No, sir; we will not have to any grading that I low of.

Mr. Kelley. There is no harbor there?

Admiral Coontz. You are inside of the breakwater.

Mr. KELLEY. But it is an artificial harbor?

Admiral Coontz. Yes, sir.

Mr. Kelley. I remember somebody's report to the effect that in se of war we would have to move away from there.

Admiral Coontz. That might be said of New York City, the sa thing.

Mr. Kelley. Well, New York City is pretty well fortified, is it and Admiral Coontz. Yes, sir.

Mr. Kelley. Do you intend to fortify this place?

Admiral Coontz. I imagine the War Department does in time Mr. Kelley. You are right out in the open there, and there is protection for these little boats at all.

Captain Day. We would not want anything better than to he

somebody come in there and try to shoot us up.

Mr. Kelley. I am only quoting what I remember of a na

officer's report.

Admiral Coontz. It was considered a satisfactory naval stat by the committees of the Senate and the House who went there

Mr. Kelley. Who was at the head of the board that made t

first report?

Admiral Coonty. The first report was the report of Admiral He Mr. Kelley. The Helm report says that you can not stay then time of war; that you would have to move out and go down to other place.

Admiral Coontz. I would not dispute that without looking at

Secretary Denby. Do you recall it, Commander Hill?

Commander Hill. I do recall it, because I was with Adm Helm at the time, and the Helm report on San Pedro mentions i being the best available site for a submarine base.

Mr. Kelley. In peace time?

Commander Hill. No; at any time.

Mr. Kelley. It specifically states in just as plain English as be written that in time of war you would have to move away fi San Pedro and go to the other place.
Secretary DENBY. That might refer to the outer harbor.

Commander Hill. Only two battleships can lie behind the bre water, but the submarine base is at the extreme inner end of artificial harbor, and I do not know of any place that will ever smoother in time of storm than that place.

Mr. Kelley. You are going to keep 12 boats there? Captain Day. Yes, sir.

Mr. Kelley. Where are the rest of them!

ALLOCATION OF SUBMARINES FOR 1923.

(See p. 323.)

Captain Day. Six O and seven R boats are at Coco Solo.

Mr. Kelley. Thirteen in all?
Captain Day. Yes, sir. Eight K-boats at Hampton Roads
L-boats, 3 N-boats, 2 R-boats, and 1 S-boat at New London experimental work, and 14 S-boats as they come in will be on Pacific.

Mr. Kelley. Where!

Captain Day. With the Pacific Fleet, with mobile tenders.

Ir. Kelley. Fourteen with the fleet in the Pacific? They are oats are they?

aptain DAY. Yes; and 14 with the fleet in the Atlantic; also 3 T 10 O boats in the Atlantic.

Ir. Kelley. Where in the Atlantic?

aptain DAY. With the fleet.

Ir. Kelley. Why did you not put them all with the fleet? aptain DAY. They are all with the fleet except those at New don, Coco Solo, and Hampton Roads.

r. Kelley. You said the Atlantic Fleet had 14 R-boats? aptain Day. Yes, sir; it will have.

r. Kelley. And then you said 3 T and 10 O boats with the ntic Fleet?

aptain Day. I should have said 14 S-boats.

r. Kelley. Fourteen S-boats with the Pacific Fleet?

ptain DAY. Yes; and 14 S-boats with the Atlantic Fleet, plus 3 ats and 10 O-boats.

r. Kelley. Did you say 14 S-boats in the Atlantic?

ptain Day. Yes, sir.

r. Kelley. And 3 T-boats and 10 O-boats? ptain Day. Yes, sir.
. Kelley. They are all with the fleet?

ptain DAY. Yes, sir; as soon as the S class are put in commission. -. Kelley. Of all these boats, you have only 42 with the fleet? ptain DAY. Yes, sir.

. Kelley. And the rest of them are stationed at the points you

mentioned?

ptain Day. Yes, sir; and at Manila and Hawaii.

. Kelley. What sort of a plant have we at Coco Solo? ptain DAY. We have a very good plant at Coco Solo.

. Kelley. Did it cost as much as the plant at New London? ptain DAY. No, sir; I do not know what it did cost, but it is not implete as the one at New London.

. Kelley. Have you as many men there as at New London? ptain Day. No. We are supposed to have 409 men at Coco Solo

ve actually have 390.

. Kelley. About as half as many as at New London?

ptain Day. A little more than half.
. Kelley. What do the boats at Hampton Roads do?

ptain DAY. They are training men for the S-boats as they come : that is what they are used for now; they are kept in commisfor coast patrol and for training, and are kept in commission two-thirds of a crew.

. Kelley. Admiral, which of these various activities should be up if some of them are to be discontinued.

miral Coontz. If any of them are to be discontinued, of course, eet activities would be the last to be discontinued.

Kelley. And there are 42 boats in that service?

miral Coontz. Yes, sir. retary Denby. I think you ought to qualify that answer. are needed with the fleet, naturally there must be auxiliaries lition, so that for the fleet there would be a need for something lition to the 42, but how much in addition is a different proposiAdmiral COONTZ. I understood him to say that if we started to do away with some of the submarines, what would we keep, and, of course, we would keep those with the fleet.

NEW LONDON SUBMARINE BASE.

(See p. 315.)

Mr. Kelley. Admiral, the Captain says that the 14 to be kept at New London, the 4 N, 4 K, 4 L, 1 R, and 1 S boats, are for experimental purposes.

Admiral COONTZ. Yes, sir.

Mr. Kelley. What does he mean by that?

Admiral COONTZ. He means that they are experimenting with every new device that comes along in the submarine line, from listening devices up.

Mr. Kelley. Then there would be 14 that would not require

personnel on them.

Admiral Coontz. They are all two-thirds manned, I think.

Captain DAY. Yes, sir.

Admiral Coontz. Every submarine we keep must be partially

manned or else it will soon go to pot.

Mr. Kelley. It gets right back to what I had in my mind yesterday, that this is such an experimental part of the Navy—because you are always working on these engines, batteries, and everything else, trying to perfect them and make them more seaworthy and safe—that of necessity quite a large number of these boats are constantly out of commission and they are laid up temporarily.

Captain DAY. But each boat laid up must have men to see that

the batteries and engines are kept in order.

Mr. Kelley. But if you have 175 men on shore doing nothing else, can they not do that! Why do you have to have a crew to keep the batteries and everything in condition when you have expert mechanics on shore who are paid for the work of making these improvements and repairs! Have you not a doubleheader there!

Captain DAY. No, sir.

Mr. MADDEN. After all, do you not take the mechanics who are on shore and have them do this work!

Captain DAY. No, sir.

Mr. Kelley. He has 500 men; half of them are mechanics and the other half are housekeepers, bookkeepers, and the usual employees you use in running a place like that. But if there are 14 boats there all the time doing experimental work, why provide any personnel as long as you have so many on shore at that point who, undoubtedly could take care of these little boats without letting them run down. That could be done, could it not?

Captain DAY. No, sir. These boats go to sea; they operate three

or four days a week in carrying on their experimental work.

Mr. Kelley. When they go to sea they take the shore men along with them, do they not!

Captain Day. No, sir.

Mr. Kelley. What do they do while the boats are away?

ptain Day. They are working on the boats that are in; they shifted around from boat to boat, and they work on the power

r. Kelley. You use over 300 men on that little base?

NUMBER OF MEN FOR CARE AND REPAIR OF SUBMARINES.

aptain Day. No; 192 men to take care of the repairs on the boats the power plant at the station.

ecretary Denby. How many did you say the power plant took?

aptain Day. The power plant takes 20.

ecretary Denby. How many men who are purely mechanics and ert men have you to work on the boats? Ir. Kelley. There are no civilians?

ecretary Denby. No.

Ir. Kelley. What are the ratings of these men?

ecretary Denby. Would you mind letting him answer my stion?

Ir. Kelley. I think that is the same question.

ecretary Denby. What I am getting at is how many men are i at the station for the purpose of taking care of and repairing se submarines.

Ir. Kelley. I think he said 192.

aptain Day. That was the total, but I am trying to separate se used for the shore plant.

Ir. KELLEY. Four or five men run the power house? aptain Day. No; the powerhouse is charged with 20.

Ir. Kelley. Does it take 20 men to run a little power house? 'aptain Day. It is not a little power house but a big one.

Ir. Kelley. For what do you use power?

aptain DAY. For lighting, furnishing electricity to boats, and nishing compressed air to boats.

Ir. Kelley. But not when the boats are away.

aptain DAY. The boats come in and charge at night.

ecretary Denby. How many men are there in the service of the its? The other men are in the service of the men. How many n are actually serving the boats, mechanics, etc.?

The CHAIRMAN. There are 20 running the plant; that makes 172.

dr. Kelley. You could not get 172 men on these boats.

Captain DAY. Take 20 men off, that gives 172.

dr. Kelley. You have only 15 boats, some of them at sea?

Paptain DAY. Some of them all the time, practically. dr. Kelley. Then the men ashore—

Laptain DAY (interposing). They are not loafing because the boats

ecretary Denby. They are not the mess attendants?

aptain DAY. No.

ecretary DENBY. They are not the officers in charge?

aptain Day. No, sir.

ecretary Denby. They are simply 172 men whose sole function take care of these boats and make the repairs necessary?

aptain DAY. That is my difficulty. There is no such line of sion. All the men are available for whatever work must be either on the submarines or on the base.

Secretary Denby. That still leaves 172 men whose sole function is to take care of these boats, make the repairs, and keep them is

condition. That is what I want to find out.

Captain Day. Here is the way it is: Powerhouse, 20; machine shop 23; outside repair, 10; sheet-metal shop, 22; foundry, 4; pattern sho 4; capenter shop, 12; optical shop, 4; engineer shop, 3; radio, t battery overhaul, 18; charging station, 2; officer, 4; yard craft, t boats, 9; boat repair, 2; and mess cooks, 9.

Secretary Denby. I want to eliminate everybody except the

who serve with the submarines.

Mr. Kelley. There are 18 men attending to the batteries?

Captain Day. Yes, sir. Mr. Kelley. Why not let the 18 men take care of the ships and

batteries and close the thing down?

Captain DAY. If you want the rest of the ships to go to the bald. Mr. Kelley. That is only 14 you have there. You do not bring all the boats from Honolulu, Hampton Roads, and Manila, from the fleet up there, you do not take any of them?

Captain Day. Other boats are frequently there.

Mr. Kelley. You do not take the 14 boats a long distance from this point. You have 14 of the oldest boats; you have the most worthless.

Secretary Denby. They are all necessary for the upkeep.

Mr. KELLEY. Not on shore. Why not run the shore station the same as the navy yards -hire the men and let them get their on cooking. This idea of keeping a big boarding house at that place terribly expensive.

Secretary Denby. You would lose money if you attempted to him

I do not believe you could hire them.

Mr. Kelley. That makes it very expensive at New London by reason of having the enlistment feature and the retiring status and feeding, heating, lighting, and lodging, and that applies to every man waiting upon them, even the mess attendants. You have a great many mess attendants. You have more people waiting on the men

Secretary Denby. Let us look it over. I think the thing should be

gone into carefully.

Mr. Kelley. You say that these 14 would have only two-thirds That would be about 20 and that would be 280. You have 190 mechanics.

Admiral Coontz. The general rule is for two submarine people ashore, one affoat. Of course, you know the percentage of German boats that were able to go at any one time.

Mr. Kelley. Fifteen or 16.

Admiral Coontz. A very low percentage.

Mr. Kelley. Still you want a full complement for every ship i the Navy except twenty-odd and a two-thirds complement for the Admiral Coontz. What is the answer? The Secretary now is getting rid of 30, 15 and 15. That is 30 out of 141. That is a ve

big percentage.

Mr. Kelley. They are the old original types!

Captain Day. They are back from 1913, not the old originals -Secretary Denby. Of course, I can see it is very clear that C mechanic can not do everything. You have to have a numb cause they have different specialties. With the most delicate echanism like in the submarines you must have good men.

Mr. Kelley. You have here at this point the least necessary work at the least desirable boats, with the greatest expense, and a school 20 men.

Secretary Denby. That is rather a different proposition. I was

lking about the men, not the need of this particular station.

Mr. Kelley. With these boats scattered all over this way it looks though the New London proposition was not worth inquiring into. Secretary Denby. You mean as a whole?

Mr. KELLEY. Yes, sir.

Secretary Denby. That is a different proposition.

Mr. Kelley. I do not see why, in the first place, there should ave been an investment of three or four million dollars. It looks ke in order to keep the investment up it takes this big overhead. Secretary Denby. Suppose we did not have it, would you take the 14 boats and base them somewhere else? Is there any magic to New London?

Captain Day. Not at all. I do not know where it would be.

Mr. Kelley. You might send five to Manila and one or two to conclude?

Captain Day. Manila and Honolulu are both filled up.

Secretary Denby. Have we not an experimental station at New-ort?

Captain DAY. A torpedo station; yes, sir. There is no place for ne men to live if the submarines go there.

Mr. Kelley. How about Hampton Roads?

Captain Day. They might be able to take care of part of them here.

Mr. Kelley. There is plenty of place for the men to live. Captain Day. Yes; there is plenty of room in the east camp.

Secretary Denby. How about Coddington Point?

Mr. Kelley. I am more interested in the general proposition that he whole testimony shows that a large number of submarines are uddenly laid out and you are asking for full crews on practically verything you have. I think you can get along with a smaller number of men and operate the same boat not quite so often, but have the crews transferred from one ship to another and lay a boat up for repairs. The boys have to rest half the time. If they go put for eight days or a week they have to lay up for a couple of weeks. They get deathly sick and can not stand it.

Secretary Denby. I hope you will not take up that subject. The submarine crews are so trifling that it does not amount to anything, but their relative value is perfectly enormous; but you are talking now about concentrating the submarines, and that is another matter.

Mr. Kelley. Where you put these boats is a matter for you, not for Congress; that I would not know and would not presume to say.

Secretary Denby. No; if Congress wants to abandon New London, is a different proposition.

Admiral Coontz. Look at this end. Here are 10 of these boats at Manila and a lot at Pearl Harbor and some at Coco Solo and all

They are needed for strategic purposes. The question of the abandonment of New London is another matter, of course Transferring some of them to some other point, that is a question That is one of the things that must be considered that is coming up. and is being considered.

Mr. Kelley. Did you not lay up most of the submarines entirely

during the war?

Admiral Coontz. I did not have anything to do with that.

Captain DAY. No, sir; we did not. Mr. Kelley. You laid them up? Captain Day. No, sir; none was laid up.

Captain WILLIAMS. The submarines were on the other side. Mr. Kelley. These 2,000 should not be on the seagoing list? Admiral Coontz. It is immaterial whether you put them there. Mr. Kelley. These are shore men, shore people absolutely, not

seagoing people?

Admiral Coontz. I see no objection to putting them on the shore list.

Mr. Kelley. That is where they belong.

Admiral Koontz. As I say to you, there must have been some very good reason for putting them there and now there should be a reason for putting them back. I do not know whether they should go back.

Secretary Denby. It really does not make any difference.

Mr. Kelley. It is perfectly misleading to put 570 men on the list of men supposed to be at sea when they are running a plant at New London !

Admiral Coontz. Yes, sir.

Mr. Kelley. That is not the fact about it.

Captain WILLIAMS. The station at New London is directly under the Bureau of Navigation and it has been investigated with the I am not certain that we have gotten it solved, but I think Commander Leahy is one of the members of the last board that investigated this subject as to the personnel up there and perhaps he may be able to add a personal touch to it, having seen this thing from the exact point of view that you do. Mr. Chairman, the point of the enormous number of men that we have on shore there. We investigated it and had a committee appointed.

Secretary Denby. The point that we are now discussing is whether or not the shore base, submarine mechanics and others, should be

included in the seagoing fleet personnel.

Captain WILLIAMS. I think that is immaterial.

Secretary Denby. No; it is very material. We want to find out exactly what men we have to have on the boats. If you take the 2.000 off the seagoing list then you are going to reduce your seagoing list by that number. It is only a question of bookkeeping where they are carried, whether they are carried merely as attached to the Eagle boats, and therefore you would call them seagoing men! obviously.

Mr. Kelley. They are not seagoing men, no matter where they are paid.

Captain Williams. That seems fair.

Mr. Kelley. I think they might be carried as a part of the shore complement?

Captain WILLIAMS. Yes. sir.

cretary Denby. They are just exactly as vital as the men who the guns.

r. Kelley. Do you think that the mechanism is more delicate the instruments on the battleships?

ptain DAY. Yes, sir; very much. cretary DENBY. They ought to be a trained personnel.

r. Kelley. These men who work do not go out with the sub-

ptain DAY. Yes, sir; they do; they are transferred back and

imiral Coontz. Just as I do; somebody relieves me and I go to

r. Kelley. We will shift them out of this list. cretary Denby. I can not see any objection to that. iptain Day. No, sir. r. Kelley. What have we left?

SURVEY SHIPS.

imiral Coontz. The survey ships. iptain Williams. The Hannibal, 146.

r. Kelley. How many have you on the Hannibal now? ptain WILLIAMS. One hundred and thirty-seven.

r. Kelley. What does this ship do?

imital Coontz. It makes surveys on the south coast of Cuba, Honduras, and all along that coast. Those countries down there of survey the waters. The most of the surveys of the earth have made by the British and ourselves. It is a thing that goes on year to year. We have reduced the surveying boats from three ne. We feel that this nucleus should be kept going if it is at all ible to continue it.

r. Kelley. This comes under the Hydrographic Office? dmiral Coontz. Yes, sir.

r. Kelley. No other nation makes these surveys? dmiral Coontz. Yes, sir; the British make them.

r. Kelley. In these same localities?

dmiral Coonty. I think none at present. I believe the British te theirs in different parts of the world. This is on the way to ama, and it is for that purpose.

r. Kelley. What else is there left?

FLEET TUGS.

dmiral Coontz. Twelve fleet tugs. Have you the names? aptain Williams. Ten mine sweepers and two tugs. r. Kelley. Twelve mine sweepers; are those the ones you

Imiral Coontz. No, sir; 12 fleet towing vessels.

. Kelley. We had put down here 540 for the 10. ptain LACKEY. Five hundred and twelve for the 2 tugs and 10 sweepers.

KELLEY. What are the names of the two tugs? ptain Lackey. The Sonoma and the Piscataqua.

Mr. Kelley. The next item is the 29 fleet tugs reduced to 23 transfer of 6 from the fleet tugs to special-service craft. Suppo

you give us the names of the 23?

Captain Lackey. Allegheny, Bay Spring, Challenge, Chemun Iroquois, Kalmia, Keosangua, Kewaydin, Koka, Lykens, Mahopa Mohave, Patuxent, Patapsco, Piscataqua, Sagamore, Sciota, Sunnadi Tillamook, Umpqua, Undaunted.

The above are in naval districts and the Contocook and Sonon

are with fleet.

Mr. Kelley. That means 884 men required for fleet tugs. as have made the memorandum here; 1,131 was the number you gayesterday, and we took out 247 for transfers, leaving 884.

Admiral COONTZ. They carry from 39 to 54 men each. I support

the average would be 45.

Mr. KELLEY. Somebody gave us those figures of 1,131. Admiral COONTZ. All right, we will stand by them.

MINE SWEEPERS.

Mr. Kelley. The next are the mine sweepers, there being 10 them.

Captain Williams. We have already taken care of the 10 m sweepers.

Mr. Kelley. Did you put the names down?

Captain WILLIAMS. No, sir; I did not.

Mr. Kelley. Suppose you name the 10 mine sweepers.

Captain WILLIAMS. The Tanager, Curlew, Finch, Lark, Sea G. Penguin, Whipporwill, Chewink, and the Mallard.

Mr. Kelley. With a complement of 540 men, or 54 apiece?

Captain Williams. Yes, sir.

Mr. Kelley. We disposed of them awhile ago without giv their names.

Admiral Coontz. Yes, sir.

Mr. Kelley. Are there any mere ships?

SHIPS MANNED FOR BUREAU OF FISHERIES.

Admiral Coontz. Yes, sir; there are the ships of the Fish Commsion, the Albatross and the Fish Hawk. Under the law we are requite man them, and they require 125 men.

Mr. Kelley. How many for the Albatross and how many for

Fish Hark!

Captain WILLIAMS. Eighty-one for the Albatross and 44 for Fish Hawk, making a total of 125.

Mr. Kelley. How many do they have at the present time! Captain Williams. The Fish Hawk has 44 and the Albatross is confission.

Mr. Kelley. What else have you!

RADIO REPAIR SHIP "GOLD STAR."

Admiral Coontz. There is the auxiliary radio ship Gold Star, w 97 men.

Mr. Kelley. I think you told about her service for the Alaska Radio Stations.

Admiral COONTZ. Yes, sir.

Mr. Kelley. The Gold Star is a radio repair ship, with 97 men.

Admiral Coontz. Yes, sir.

Mr. Kelley. How many men are on her now? 'Captain Williams. Now going in commission.

TARGET REPAIR SHIPS.

Mr. Kelley. Are there any others?

Admiral Coontz. There are the two target repair ships noted on page 202, the Antares and Procyn. They take the place of the Lebanon and Nanshan, which are old vessels. We got the Nanshan in the Spanish-American War, and the Lebanon was commissioned in 1885.

Mr. Kelley. They carry the targets that are shot to pieces?
Admiral Coontz. Yes, sir; they carry the target outfits; photographic outfits, etc.

Captain WILLIAMS. One hundred and eighty-two men are required

or both of them.

Mr. Kelley. How many are on each one now?

Captain Williams. On the Antares 26 and the Procyn 17.

Admiral Coontz. Let me say that the other two ships are now in all commission, and we will drop the number of men that are carried the others. If this should be allowed, the full number will be 182.

Mr. Kelley. Ninety-one on each one.

Admiral Coontz. Yes, sir.

GUNBOATS -- U. S. S. "ASHEVILLE."

Mr. Kelley. Are there any others?

Admiral Cooxtz. There is one vessel we have lost, the Asheville.

nat is one we have lost in the shuffle.

Mr. Kelley. It is included in the gunboats. If you will take your t of gunboats, you will see that you have 769 men for nine gunboats. Le Asheville appears on that list with 150 men.

Admiral Coontz. She does not appear on my list.

Mr. Kelley. I have her here with 148 men. Is that the right mplement?

Captain WILLIAMS. Yes, sir.

Admiral Coontz. It has not been put down to-day.

Mr. Kelley. You want nine little gunboats?

Admiral Coontz. Yes, sir.

Mr. Kelley. What else have you?

FLAGSHIP COMPLEMENTS.

DIVISION AND DUTIES OF.

Captain WILLIAMS. Flag complements, 1,100 men.

Mr. Kelley. Tell us about the flag complements of 1,100 men.

Admiral Coontz. They are used by the commanders in chief of the tlantic Fleet and Pacific Fleet, the commander of the battleship

forces, Atlantic Fleet; the commander of the control forces; mander of mine squadron 1; the commander of the destroy ron, Atlantic; the commander of the train, Atlantic; the con of the Asiatic Fleet; the commander of the Yangtse Patrol; mander of naval forces operating in European waters; mander of submarine flotillas; commander of special serviron, etc. Those are men that are carried around with the and the men are transferred when the flag is transferred. charge of the records of the 70,000 men that we have aflos have been in being from time immemorial, and this is the that the commander in chief says that they need at the pres

Mr. Kelley. They are bookkeepers. Admiral Coontz. They are signalmen, radiomen, bookkee

everything of that character.

Mr. Kelley. How many additional men does the flags over and above the number it would have if it were not the Admiral Coontz. It is increased just exactly by this nur

Mr. Kelley. Take one ship, and we will suppose that the admiral of a fleet: How many more men would you h a captain would have?

Admiral Coonty. If I were the big commander in chief.

have 98 additional people altogether.

Mr. Kelley. You would have that many more than a ca Admiral Coontz. Yes, sir.

Mr. Kelley. Are there 11 ships that require 100 extra: on this account?

Admiral Coontz. No, sir; the flagship of the commande would carry 98 additional men. Some of them carry as additional men. There are about 60 different people that carry these additional people around with them. The officer carries 98, and he is the officer who is commander in the United States Fleet-the officer who must have e ready and in good condition in case of war. If you can i business as big as ours at sea, you will see that if you are give your officer who represents you everything in tha needs, and no more-

Mr. Kelley (interposing). He has 100 clerks? Admiral Coontz. No, sir; he has radiomen, signalmen, a

thing of that character.

Captain WILLIAMS. Take the commander in chief of t Atlantic Fleet, as an example. I suppose the largest n these people would be extra signalmen for the ship. E has a certain number of signalmen to perform the signa the ship, but the commander in chief has his own sign which must be manned by special signalmen to transmit signals to the entire fleet. Many of them are special quart who stand watch with the staff, and keep track not on movement of the ship itself but of the manner in which evolutions are performed.

Mr. Kelley. Do they not have regular officers and me the ship? As I understand it, these men are over and a

number needed to run the ship.

Captain Williams. They are over and above the number to run the ships.

ELLEY. I thought you were saying something about people ed run the ship.

in WILLIAMS. I said in addition to them.

ELLEY. Very well, go ahead.

in WILLIAMS. There are special clerks or yeomen, as we call ho look after the correspondence and care for the paper work to the flagship, as distinguished from the ordinary paper et is incident to the ordinary ship.

ELLEY. How many captains are on a flagship? in WILLIAMS. Sometimes two and sometimes more.

ELLEY. There is an admiral?

in WILLIAMS. Yes, sir; there is a captain of the ship and the admiral's staff.

ELLEY. How many extra commanders does it take? in Williams. There may be several.

ELLEY. How many extra lieutenant commanders? in WILLIAMS. There will be the admiral's entire staff.

ELLEY. I realize that it is quite a job to run a whole fleet,

0 men is a large number. in Williams. When you carry that through the flagship of sion, the flagship of the squadron, the flagship of the force, see that it requires 1,100 men. The additional personnel for for the commander in chief of the North Atlantic Fleet ably the maximum. Next to that would come the comin chief of the Pacific Fleet, and each division commander ave a certain number of extra men. When he moves the when he takes his station on another ship, he carries those rith him, and the duties are then continuous instead of being

al Coontz. I do not think the number is excessive. hat we depend on must be given the proper number of men everything right.

in WILLIAMS. This is the price we pay for coordination behips, as distinguished from one ship operating by itself. e have fleets, we must pay this much in personnel to make the nit efficient.

ELLEY. Let us take a battleship fleet, or a battleship division: ny ships are there in a battleship division?

al Coontz. Four.

ELLEY. Is there an admiral in charge of those four ships? al Coontz. Yes, sir.

ELLEY. If there is a division of destroyers along, who is in of that?

ral Coontz. There would be a division commander or a n commander.

ELLEY. Would he be an admiral?

ral Coontz. No, sir; a captain. That would be in addition to r duties.

in WILLIAMS. He would require a few additional men.

ELLEY. But he would not require many?

in Williams. Not many, but some.

ELLEY. The battleship division flagship would do practically bookkeeping for everybody connected with the division, and .ng that went with it?

Admiral Coontz. Yes, sir.

Mr. Kelley. How many officers will there be who will require 100 extra men, as the fleet is organized now?

Admiral Coontz. There would be not over two.

Mr. Kelley. One for each ocean? Admiral Coontz. Yes, sir.

Mr. Kelley. What is the next largest number that a flag officer would require!

Admiral Coonty. The number shades down to 62.

Mr. Kelley. What is the next highest?

Admiral Coonty. The commander in chief of the battleship forces of the Atlantic Fleet.

Mr. Kelley. What does he have under him!

Admiral Coontz. He has charge of six battleships that are on the Atlantic, of the scouting forces, and everything else. He has under him all of the submarines, air forces, etc.

COMMANDER IN CHIEF OF ATLANTIC FLEET,

Mr. Kelley. Let us start at the top. You will have to have a commander of the Atlantic Fleet?

Admiral Coontz. Yes, sir.

Mr. Kelley. Or a commander in chief, and he has to have about 100 extra men.

Admiral Coontz. Ninety-eight.

Mr. Kelley. Who would be the next officer?

Admiral Coonty. The commander of the battleship forces of the $f Atlantic\ Fleet$.

Mr. Kelley. The commander in chief has charge of all the ships in the Atlantic, whether they are together, or not?

Admiral Coontz. Yes, sir.

Mr. Kelley. Now, how many extra men does the commander of the Atlantic battleship forces have?

Admiral COONTZ. Sixty-two.

Mr. Kelley. Who is under him that has to have a flag?

Admiral Coonty. He will have the admirals of the two divisions.

Mr. Kelley. You have six battleships in the Atlantic?

Admiral Coontz. Yes, sir.

Mr. Kelley. They are divided into two divisions of three each?

Admiral Coontz. Yes, sir.

Mr. Kelley. And an admiral is in charge of those three battleships, with the auxiliaries that go with them ! '

Admiral Coontz. Yes, sir.

Mr. Kelley. What is he called?

DIVISION COMMANDER.

Admiral Coontz. The division commander.

Mr. Kelley. How many extra men does the division commander

Admiral Coonty. The division commander has altogether 41.

Mr. Kelley. Do you mean that each division commander has 41, or the two together!

Admiral Coontz. Each one.

Mr. Kelley. That would make 82 for the two divisions in the tlantic.

The Chairman. He said one had 62 and the other 41.

Admiral Coontz. One has 62 and the other 41.

Mr. Kelley. What causes that division? Are there more destroys in one division than in the other?

Admiral COONTZ. There is a division in the number of the forces. here is more than one division.

Mr. Kelley. You have two divisions?

Admiral Coontz. Yes, sir.

Mr. Kelley. If one of them gets 41 assistants, why should the

her get 62 !

Admiral Coontz. The senior commander of the whole business has men. He is in command of a division and the other officer comands a division. The latter has 41 men.

Mr. Kelley. Is there anybody under the division commander that

as a flag?

Admiral Coontz. There are various destroyer squadrons.

Mr. Kelley. Let us have them.

Admiral Coontz. Mine squadron No. 1—

COMMANDER OF MINE SQUADRONS.

Mr. Kelley (interposing). We will not have any mine squadrons. Admiral Coonty. The mine squadron commander has some of ese people.

Mr. Kelley. How many do you have in the Atlantic?
Admiral Coontz. One. The commander of the various destroyer 1adrons in the Atlantic-

Mr. Kelley (interposing). How many are there? You have only division of destroyers in the Atlantic, have you not?

Admiral Coonty. There are nine squadrons now in the Atlantic.

Mr. Kelley. You have nine squadrons with 19 ships? We are king about next year now.

Admiral Coontz. There are 19 now, we will say.

Mr. Kelley. How many squadrons would that number make?

Admiral Coontz. We have in commission now 278.

Ar. Kelley. We are talking about next year. As I understand it, will have only one division in the Atlantic, and you will have ee in the Pacific. You have one destroyer squadron in the antic?

Admiral Coontz. We would have one on the Atlantic coast.

Ir. Kelley. You operate them in nines, do you not?

Admiral Coonty. There are three divisions of six each and a leader a squadron.

Ir. Kelley. The leader is the one that carries the flag? dmiral Coontz. Yes, sir.

Ir. Kelley. How many extra men does that officer carry? dmiral Coontz. The commander of a squadron carries 14.

Ir. Kelley. Do you mean the commander of a division? Admiral Coontz. No. sir: the commander of a squadron.

Ir. Kelley. I understood you to say that you have three squads of six eachAdmiral Coontz (interposing). No, sir; three divisions of six each

make a squadron.

Mr. Kelley. I do not know what is the technical language, be heretofore we have been speaking of a division as consisting of ships, or 18 ships and a leader. As I understand it the 18 ships a divided up into three squadrons of 6 each.

Admiral Coontz. No, sir; a squadron is composed of 19 ship

and a division is composed of 6.

Mr. Kelley. Then we will use the term squadron when we spe of 19 ships. As I understand, the officer at the head of a destroy squadron has 14 men?

Admiral Coontz. Yes, sir.

Mr. Kelley. Does anybody under him have a flag? Admiral Coontz. No, sir.

COMMANDER OF CONTROL FORCES OF THE ATLANTIC FLEET.

Mr. Kelley. That covers all the fleet in the Atlantic?
Admiral Coontz. No, sir. We now come to the control force the Atlantic Fleet.

Mr. Kelley. What do you mean by that?

Admiral COONTZ. The commander of the control force of the lantic Fleet has charge of every ship along the coast that is out commission or in part commission that is assigned to him for dut as, for instance, in the line of the operations being carried on Guantanamo.

Mr. Kelley. I thought the district commander had charge of the Admiral Coontz. No, sir; he does not have charge of ships if

Mr. Kelley. What does he have to do with ships?

Admiral COONTZ. All that he would have to do would be in a nection with the small craft, of which we have very few in number

Mr. Kelley. Why not let him handle the whole business, and st

multiplying these divisions?

Admiral COONTZ. The first difficulty about that would be the difficulty about that would be the difficulty to his having a ship to go around in, and the second would mileage.

Mr. Kelley. He would have plenty of ships to go around with. Admiral Coontz. We have practically cut that down to nothing Mr. Kelley. He would not require more than one.

Admiral COONTZ. We have been taking all of them away for

them.

Mr. Kelley. You have a commander for that portion of the swhich is not in the navy yards?

Admiral COONTZ. A part of it is not in the navy yards.

Mr. Kelley. What do you call that service?

Admiral Coontz. The control forces.

Mr. Kelley. Is there more than one in the Atlantic? Admiral Coontz. No. sir.

Mr. Kelley. How many men does he have?

Admiral COONTZ. Sifty-seven men.

Mr. Kelley. Those ships are laid up, are they not?

Admiral COONTZ. A part of them are laid up.

Mr. Kelley. They are mostly at the Philadelphia Navy Yard!

Admiral Coontz. No, sir; they are scattered all the way along rom Boston to Key West and New Orleans.

Mr. Kelley. Where is this man's headquarters?

Admiral Coontz. That man's headquarters is on board ship. resent he is on board the Florida. He is now engaged in mining perations at the Virgin Islands.

Mr. Kelley. The Florida is not one of the ships in the Regular

Vavy squadron?

Admiral Coonty. No, sir; but she will be, because she is one of the

attleships we must keep.

Mr. KELLEY. You could not consolidate the control forces with the listrict headquarters?

Admiral Coontz. No, sir; this is an absolute necessity.

Mr. Kelley. How many districts do you have on the Atlantic oast?

Admiral Coontz. Seven.

Mr. Kelley. It seems to me that you could divide them up and lo away with this service.

Admiral COONTZ. No, sir; we could not.

COMMANDER OF DESTROYER SQUADRON, ATLANTIC FLEET.

Mr. Kelley. What else do you have?

Admiral COONTZ. We have the commander of the destroyer squadon of the Atlantic Fleet.

Mr. Kelley. You will not need that next year?

Admiral Coontz. Yes, sir; we will need him next year. ave apparently nothing to watch but the 19 ships, but we will have o put those ships out of commission in Charleston, and there is a number at Philadelphia that he will have to look after.

Mr. Kelley. He is the officer who has supervision of the laying

ip of the 157 ships?

Admiral COONTZ. Yes, sir.

Mr. Kelley. He would have to take off all the supplies and see hat they were properly laid up?

Admiral Coontz. Yes, sir; and it is a big job.

Mr. Kelley. You will probably have that done before the 1st of

Admiral Coonty. We hope to finish laying them up by the 15th

of July.

Mr. Kelley. Then, you would not need him next year?

Admirab Coontz. We will probably need him with the scouting rganization, and the scout cruisers are coming in.

Mr. Kelley. How many extra helpers does he have?

Admiral Coontz. He has 41.

Mr. Kelley. When those ships are laid up, you surely would not eed to have that officer?

Admiral Coonty. Unquestionably we will. If we laid up the estrovers, this could be revised downward.

Mr. Kelley. When you have only 19 in the Atlantic, and that is all ou plan to keep in commission-

Admiral Coontz (interposing). And 23 in reserve, making 42.

Mr. Kelley. That would not be a job on which to employ 41 men.

think we could cut that out entirely.

Admiral Coontz. No, sir; you could not cut it out entirely cause, no matter how small the number is, we have got to have men with him.

Mr. Kelley. How many did you say?

Admiral Coontz. Forty-one.

COMMANDER OF THE TRAIN, ATLANTIC FLEET.

Mr. Kelley. Who else have you on the Atlantic?

Admiral Coonty. We have the commander of the train, Atla Fleet, who has charge of all the supply vessels, the handling of oilers, cargo vessels, and everything else connected with the trai

Mr. Kelley. Why are not all those with the regular fleet? duplicate so much? They are right in with the fleet, are they Admiral Coontz. They are sometimes with one part of the

and sometimes with another part of the fleet.

Mr. Kelley. They are just like all the vessels, they are dete for one thing or another?

Admiral Coonty. No; this man has charge of millions of dol

worth of things.

Mr. Kelley. Why should he not be on this 98 list? It seem me you are breaking these up and getting your overhead scatte Of course I am not an operator of ships, and, you understand, I only inquiring. How many men would he have?

Admiral COONTZ. We would have 35 men.

Mr. Kelley. You call him-

Admiral COONTZ. The commander of the train.

Mr. Kelley. That is, the supply ships?

Admiral Coontz. Yes, sir.

Mr. Kelley. In the Atlantic?

Admiral Coontz. Yes, sir.

Mr. Kelley. Who else?

COMMANDER OF SPECIAL-SERVICE SQUADRON.

Admiral Coonty. We have the commander of the special-ser squadron which operates in Central America and the Caribbean which we went over yesterday. He has 10 men.

Mr. Kelley. Who else?

Admiral Coonty. The commander of the submarine flotillas of Atlantic Fleet.

Mr. Kelley. They are only a small part; they are right in the fleet, and there are 40 of them on both oceans. How many n Admiral Coontz. Twelve.

Mr. Kelley. Who else!

Admiral COONTZ. That is all on the Atlantic, sir.

Secretary Denby. But there is the aircraft.

Mr. Kelley. You do not need any special officer for the airc do you !

Admiral Coontz. He has nothing at the present time.

Mr. Kelley. That makes 438.

Admiral COONTZ. Of course, if you double that and add commander in chief of the Asiatic, the commander of the Yan patrol, and the commander of the forces operating in Euro ters and Turkish waters, you will see where we get the 1,100. wever, I will say that with the reduction in the destroyer andron, which we are going to make, we could reduce that by 200 ople.

Mr. Kelley. Making 900 altogether.

Admiral COONTZ. Yes, sir.

Mr. Kelley. Did you furnish the Committee on Naval Affairs th the details as to just what kind of service these men performed. Captain WILLIAMS. No, sir.

MUSICIANS AND BANDS.

Mr. Kelley. How many musicians would there be on this list? Captain WILLIAMS. I can give it to you complete for the record. Mr. Kelley. Can you give me a little idea?

Captain WILLIAMS. There is a band on almost every one of these

ttleships and the flagships have a band.

Mr. Kelley. An extra band? Captain WILLIAMS. No; a band.

Mr. Kelley. They would have a band anyway. Captain Williams. Yes, sir.

Mr. Kelley. Have you a band on every ship? Captain WILLIAMS. A band on every battleship.

Mr. Kelley. Then there would be no extra men carried for the ınds.

Captain WILLIAMS. There would be an increase in the size of the .

Commander Leahy. The commander in chief-

Mr. Kelley (interposing). If you know about this, let us take e first number of 98.

Commander Leahy. Of that 98 I can tell you that a band consts of 9 pieces.

Mr. KELLEY. Extra?

Commander LEAHY. For the commander in chief.

Mr. KELLEY. Go on.

Commander Leahy. And the rest of that 98 is made up in boats WS.

Mr. Kelley. Let us have the number.

Commander Leahy. I can not give you the number; I would have get that from the records.

Mr. Kelley. How many mess attendants?

Commander LEAHY. There will be three messmen branch for the amander in chief, one for his chief of staff, and one for each three cers who are members of his staff.

Ir. Kelley. And how many of them would there be?

ommander Leany. Probably 6 officers. I understand there are in the New Mexico, and then there would be an allowance of 6 for se 20 officers.

Ir. KELLEY. That would be 10 in all of messmen branch.

ommander Leahy. Yes, sir.

r. Kelley. How many for other ordinary services? mmander LEAHY. None.

FLAGSHIP SIGNAL FORCE.

Mr. Kelley. How else is this made up?

Commander LEAHY. The flag signal force consists of 22 signal boys. Mr. Kelley. That is in addition to the regular number on the ship! Commander LEAHY. This is the commander in chief's detail.

Mr. Kelley. How many signal boys are there on a battleship

ordinarily?

Commander Leahy. On a ship other than a flagship there are 12.

Mr. Kelley. And this would make 28 on a flagship? Commander Leahy. No; a flagship does not get that many.

Mr. Kelley. We are talking about the extra men. How many

Commander Leahy. I can not give you any exact figures. I an giving you the make-up of that 98 as near as I can.

Mr. Kelley. You say it is 16? Commander Leahy. Yes, sir.

Mr. Kelley. Go ahead.

Commander LEAHY. Five signal quartermasters.

Mr. Kelley. What are they?

Commander LEAHY. The men in charge of the signal watches; in other words, the supervisors of the signal boys on watch; there will be four signal boys on watch at a time.

Mr. Kelley. And one boy to watch over them. Commander Leahy. A quartermaster in charge. Mr. Kelley. Why do you call him a quartermaster?

Commander LEAHY. His name has been changed within the last six months to signalman, and the boys are called seamen signalmen.

Mr. Kelley. What else!

FLAGSHIP RADIO DETAIL.

Commander Leany. Then he has a detail of radio men for his flag battle station.

Mr. Kelley. How many of those?

Commander LEAHY. I think there are eight.

Mr. Kelley. Extra radio men? Commander Leahy. Those are for the extra stations of the flag officer on the bridge.

Mr. Kelley. Go ahead.

FLAGSHIP BARGE AND BARGE CREW.

Commander Leahy. Then he has a barge. There are four barges, and 16 in the boat crews.

Mr. Kelley. There are four barges and 16 men altogether?

Commander Leahy. Yes, sir.

Mr. Kelley. That is used for going around among the different ships?

Commander LEAHY. Yes, sir; for the use also of his staff.

Mr. Kelley. Go ahead.

FLAGSHIP YEOMEN.

Commander Leahy. The yeomen come next. Mr. Kelley. They are the clerks!

Commander LEAHY. Yes, sir.

Ar. Kelley. How many of those?

Commander LEAHY. I can not tell you how many offhand.

Captain WILLIAMS. Captain Day, how many did you have on the **nnsylva**nia !

Captain DAY. I should guess 30.

Commander LEAHY. How many did you have in the printing ice ?

Captain DAY. Four. Mr. Kelley. What else?

Commander LEAHY. I think you have them all if you will add em up.

Mr. Kelley. That makes 104.

Commander LEAHY. I think the mess attendants and veomen are little too high. This has been from memory, but I can give it to u officially. I think the yeomen business is also too high.

Mr. Kelley. You have reduced this to 900, have you, Admiral?

ATLANTIC FLEET AIR SQUADRON.

Admiral Coontz. Yes, sir. I have just one more thing which we nitted, mine sweepers on special duty. These are for training the squadrons in the Atlantic.

Mr. Kelley. Where do you get those boats?

Admiral Coontz. You do not find them on the list; they have been it out. I could not find them on the list.

Mr. Kelley. Here are three at air stations and six at naval sta-Are they a part of them?

Admiral Coontz. No.

Mr. Kelley. Let us take the three at air stations.

Admiral COONTZ. They are the Sandpiper, Teal, and Gannet.

Mr. Kelley. There are three at air stations and six at naval staons. I think you have covered them all.

Captain WILLIAMS. There are 26, all told, sir.

Mr. Kelley. Who can tell us how you arrive at your number of 100?

SCOUTING SQUADRON-NUMBER OF MEN AND DUTIES OF.

Commander LEAHY. This is the organization of the Atlantic Fleet r squadrons. The first group is the scouting squadron. Mr. Kelley. That sounds formidable. Commander Leahy. That consists of 105 men.

Mr. Kelley. You want 1,100 men who are not connected with the rplane carrier or airplane tenders?

Commander LEAHY. Yes, sir.

Mr. Kelley. They are the men to fly the machines?

Commander LEAHY, Yes, sir.

Mr. Kelley. And act as the pilots of the machines? Commander LEAHY. Pilots and the upkeep.

Mr. KELLEY. Upkeep?

Commander LEAHY. Yes, sir.

Mr. Kelley. What do you mean by upkeep? Commander Leahy. I mean the overhauling of the engines, the airing of them, etc.

Mr. Kelley. That is done on the battleships, is it?

Commander Leany. It is done either on shore, where these people are basing, or it is done alongside one of the tenders.

Mr. KELLEY. You have a lot of men on each one of those tenders

to do that.

Commander LEAHY. We have a lot of men on them, but they run the ships.

Mr. Kelley. A lot besides. Quite a number of men were added,

and now you are putting them in here again.

Commander LEAHY. I think there was a mistake in that. allowances are made for the actual number of men necessary to run the ships, and not the small details connected with the operation of the machines.

Mr. Kelley. It is not a very small detail when you put on 100:

extra men.

Captain Williams. One of them carries 339 men and that is not an excessive number.

Mr. Kelley. Just for running the ship?

Captain WILLIAMS. No, sir.

Mr. Kelley. How large a ship is the Langley?

Commander HILL. Nineteen thousand three hundred and sixty

Captain WILLIAMS. This is an attempt to develop a mobile aviation force, the 1,100 people.

Mr. Kelley. If you have these on the ships you will not need

them on shore where you have these others.

Captain WILLIAMS. If you could get them all to sea you would not need these, but this is a force of aviators that has been organized

to go out to sea.

Mr. Kelley. I approve of it thoroughly. If you can fly these ships off the decks of your battleships, that is fine, but if you take 1.100 that you have been using at shore stations and put them on the ships, why do you have to make a special item of 1,100 here?

Captain WILLIAMS. We want to build up an aviation force. Commander LEAHY. This scouting squadron is—

Mr. Kelley (interposing). Let me ask you this first: How many men are now in aviation!

Captain Williams. In addition to those, we have 2,500 and they

are asking for more.

Mr. Kelley. There are 2,500 now on shore. Captain Williams. Two thousand five hundred now; yes.

Mr. Kelley. Flyers and others?

Captain Williams. Yes.

Mr. Kelley. You are now asking for the same number on shore and 1,100 more for the fleet.

Captain WILLIAMS. That is what we have at the present time.

Mr. Kelley. You do not have them now, do you?

Captain Williams, Yes.

Mr. Kelley. Have you 1,100 with the fleet now!

Captain Williams. Yes, sir.

Mr. Kelley. What ships are they on !

Commander Leany. I did not say they were on the ships, sir.

Mr. Kelley. Well. Captain Williams says they are on the ships. Let us have the disposition of the men who are in this item by ships. Commander LEAHY. In the fleet air detachment there are 632.

Mr. Kelley. How many on the Florida?

Commander Leahy. I have not that, sir. I have the total number. Mr. Kelley. You must know where they are or you would not ave the total.

Commander LEAHY. I do not have it here, but I have it at the lavy Department.

Mr. Kelley. How many are there?

Commander Leahy. Six hundred and thirty-two.

Mr. Kelley. At the present time?

Commander LEAHY. Yes, sir.

Mr. Kelley. And you want to double it?

Commander Leahy. The estimate asked for, which has been gone ver and drawn up here, amounts to 1,100 men.

Mr. Kelley. If you want to put 1,100 on the ships, why can you ot take 500 from shore and put them on the ships?

Commander LEAHY. That is out of my province.

Mr. Kelley. Why increase the number?

Commander LEAHY. That is for the Secretary and the General loard to decide.

Captain WILLIAMS. I think the question of how many aviators we ant or what your policy in aviation is going to be is a question of olicy for the department. They have asked not only for this 1,100 etachment, but for more.

Mr. Kelley. One of the finest things in the world is the ability to sk. I think the policy is a good one, to transfer, as far as you can, viators from the shore to the ships, because that is what naval viation should be, but it does not mean that you should build up a reat shore establishment and then build up a great sea establishment simultaneously, but you should change from one to the other.

Secretary DENBY. A number of people think we can do without irships at all.

Mr. Kelley. I am not one of that number; I think they are very aluable.

Secretary Denby. I am not, either; and I think the number of irships——

Mr. Kelley (interposing). I think it is a fine thing to have these irships on the battleships.

Secretary DENBY. But you can not leave the shore absolutely

nprotected by airplanes.

Mr. Kelley. If you have these 2,500 men training on shore and etting ready, why can you not, as soon as you get them trained, ansfer them to the ships without increasing your establishment? Secretary Denby. You see, the ships are being gotten ready, and do not know exactly what the situation is.

Mr. Kelley. Who does know?

Admiral Coontz. Captain Moffett can tell you in 10 minutes.

Secretary DENBY. I am trying to answer in a clumsy way why need an increased number. They are putting catapults on the ips, so that we can launch aircraft from them, and when they are idy the force must be increased. Everybody approves of the licy of using these airships on battleships as soon as they can be inched from the battleships and return.

Mr. Kelley. Do you not think you could arrange to transfer those from the shore to the ships without increasing the number.

Secretary Denby. You can obliterate the shore stations if you like.

but then you would leave the shore absolutely unprotected.

Mr. Kelley. I think that probably the protection of the shore is of so vital. This is a sea proposition, is it not?

not so vital.

Secretary Denby. Not entirely. Every squadron that went out of New York Harbor during the war went out with airplanes all around

Mr. Kelley. We have so many different departments guarding the shore that I had supposed this was a fleet proposition.

Captain WILLIAMS. It is a fleet proposition.
Secretary DENBY. It is not entirely a fleet proposition.

Captain WILLIAMS. You can not pick up so many airplanes and put them on your ships until you get the machines developed and everything ready to receive them. For a while during the summer they were with the North Atlantic Fleet and they developed certain things.

Mr. Kelley. Your idea is to train the men to fly, of course, at the

training stations on shore.

Captain WILLIAMS. Yes, sir.

Mr. Kelley. And then put them in the fleet?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You do not intend to build up a great protection base ashore, do you?

Captain WILLIAMS. That is a different question.

Mr. Kelley. I say, that is not your plan? Captain Williams. That is not what we are asking for.

Mr. Kelley. What you want is enough men to train, first, on shore, and then put them into the fleet.

Captain WILLIAMS. That is what we are talking about.

Mr. Kelley. And I ask you why you want 1,100 additional for

this year, since you are not going to pile them up on shore.
Captain Williams. Mr. Kelley, we are asking for 1,100 men on this seagoing list, and we expect to fit out the Langley, and, perhaps, some flying detachments on other ships, if that is the development that takes place. We started on this thing, and we have six hundred and odd, I think, working on this business now, and we are putting them at sea as fast as developments make it possible. This is an aviation problem and a problem of the future policy of the use of airplanes at sea. This 1,100 is the detachment we hope to be able to use in the seagoing aviation proposition this coming fiscal year. At the present time this thing has got to be more or less supported; that is to say, it has to have not only its specialists but other people to go with it.

I think some of them are operating from Key West across to Guantanamo; at another time they went down on the ships to Guantanamo and flew off the beach there, because, I believe, they are not ready to fly off the ships yet; that is the important question in connection with this aviation problem, and these men are the men who are becoming aviators and will be ready when this development

takes place.

Mr. Kelley. Then if we take it up with Admiral Moffett, to see whether the ships are ready, we can get at it exactly.

Captain Williams. Yes, sir.

Mr. Kelley. Have you any more ships to take up? Admiral Coontz. No, sir.

LLOCATION BASED ON 50,000 MEN AFLOAT AND 15,000 MEN ASHORE.

Mr. Kelley. Now, Admiral, this is what I would like to have you ded the Secretary do: I would like to have you take this list of ships at you have asked to have kept in commission and assume that we egoing to give you 50,000 men for the fleet and 15,000 men for the ore, and assign to these 18 battleships such proportion of them as no believe they ought to have.

Secretary DENBY. Wait a minute; that is not possible.

Mr. Kelley. Just a minute; and put 103 destroyers in full comission and 84 submarines in full commission. I want the list to ntain those ships, 18 battleships, 103 destroyers, and 84 submanes, with the necessary tenders and other auxiliaries, oilers and nkers, to go with those, and then assign what you have left, as far they will go, to the other ships on this list, striking off the list ch as you feel you could not keep in commission with that number men.

Admiral Coontz. Yes, sir. What would be your advice as to the

ina station and the European station?

Mr. Kelley. I will leave it entirely to the discretion of the departent. The Congress, I feel quite sure, would want you to keep in mmission the 18 battleships, at least 103 destroyers, we will say, id 84 submarines, and the necessary other things to go with those, id then if there was to be a shortage anywhere, we would want it come below that point. We would like to have you make a stateent for the record with those ships in and the others out, to whaterer extent is necessary to man these ships that are fighting ships.

Secretary Denby. That is, 50,000 affoat and 15,000 men ashore. Mr. Kelley. Yes. So we will be sure about it, we want the list include the names of the ships and the number of men upon each id every ship of each grade right straight down, showing just where

ou would use the 50,000 men.

Secretary Denby. You do not mean the number of men in each rade.

Mr. Kelley. No. Take 50,000 men and apply them to the battlenips, the destroyers, and the submarines as far as you think they ught to go, and then if you have to strike out anything, strike out things below which are of least consequence to you, but not ping beyond the 50,000 men with the fleet.

Secretary Denby. Are we to consider the men traveling to and o and the men who are not in the service and not available as in 16 50,000? As you know, there is always a number of men who re not available for one reason or other, being sick or absent from

ity for one reason or another.

Mr. MADDEN. Do you mean replacements?

Secretary DENBY. No; sick men, men in desertion, men who are liberty, and all that sort of thing. You can not keep the men of e crews going all the time every day of the year, and you must ake an allowance for a number of men who are not available, and would like to have some figure at which you would want to place en of that character.

Mr. Kelley. If you have 50,000 men available——

Secretary DENBY (interposing). If you want us to say what we

will do with them in the Navy that is a different proposition.

Mr. Kelley. I have suggested 50,000 men for the fleet and 15,000 men for the shore as the sum total to keep in commission the number of vessels I have mentioned, and I have suggested that if there is a shortage you strike out from the bottom and see what your judgment would be.

Secretary Denby. In other words, you are just taking 65,000 mer for the Navy over all and you ask us to see what we can do with them

Mr. Kelley. I did not quite say that.

Secretary Denby. I mean make the best use of them.

Mr. Kelley. I said to keep in commission 18 battleships. 10 destroyers, and 84 submarines, and then below that strike out until you get enough out, if you have to take any out, to get down to 50,000 men.

Secretary Denby. I do not imagine that number of men, 65,000 constitutes the number available for service, because, as I have said there is always a great number not available because of sickness desertion, and other reasons.

Mr. Madden. But it would not be impossible to make an allocation of the 50,000 men.

Secretary Denby. No; but it is impossible to use 50,000 men if 50,000 men are all you have for the complements of the ships. It is impossible, and you can not do it.

MONDAY, MARCH 13, 1922.

Mr. Kelley. We have with us this morning again the Secretary of the Navy, Mr. Denby; the Assistant Secretary, Colonel Roosevelt: Admiral Countz, Captain Williams, and other assistants.

I think we had pretty well finished the subject of the number of men afloat when you were here last Friday, and at the end I asked the Secretary to allocate 50,000 men afloat to the ships of the Navy including in that list 18 battleships, 103 destroyers, 84 submarines, and the necessary auxiliary craft to make those effective fighting units, and then to supplement that with such other ships as could be kept in commission with the balance.

Secretary Denby. While leaving 7 per cent for replacements, have that list. Do you want it by ships or classifications?

Mr. Kelley. I am very much indebted to you, Mr. Secretary. I this list. I hope that I did not make too much bother over Sunction the officers.

Secretary Denby. You can not make too much trouble for us.

Admiral Coontz. We are glad to have done it, even if we work until 10 o'clock last night.

Secretary Denby. I should like to read into the record the vesswhich have been stricken from the list.

Mr. Kelley. I see by this list you have furnished that you h ≥ given a résumé, as well as the details, ship by ship.

Secretary Denby. We have given the details ship by ship and replacements are also given.

Kelley. At this point, I think, it would be well to put into the Mr. Secretary, this complete table just as you have furnished it. etary Denby. I think it would be well if I inserted in the at this point a statement later to be prepared.

Kelley. Whichever appears to be the best place for it to ap-

i the record.

etary Denby. I can send you down a statement to-day.

KELLEY. Very well. Please put into the record at this point mmary and also the details immediately following. etary Denby. Yes, sir.

on of 50,000 men aftoat to ships of the Navy (including 18 battleships, 103 ders, and 84 submarines, with full complement and auxiliary craft), balance of men to ributed to such other ships required so far as possible.

SUMMARY.

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ter, Atlantic Fleet, destroyers (flag), at Charleston, S. C			1
Atlantic Fleet (flagship)		544	38
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tty is signed)	, navy vard, Puget Sound, out commission (Seattle to replace Connecticut		
, to replace Utah in European waters later	aty is signed)	612	43
ton, Pacific Fleet, destroyer flagship	, to replace Utah in European waters later		<u>-</u>
	ton, Pacific Fleet, destroyer flagship	649	45

Allocation of 50,000 men aftoat to ships of the Navy (including 18 battles) stroyers, and 84 submarines, with full complement and auxiliary craft), balan be distributed to such other ships required so far as possible—Continued.

SUMMARY-Continued.

	Pers
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	·
3 light cruisers, first line:	
Omaha, commission when completed, May 31, 1922. Two others when completed	
5 light cruisers, second line:	
Birmingham, special service squadron Denver, special service squadron	
Galveston, special service squadron	1
Tacoma, special service squadron. Cleveland, special service squadron.	· · · · · · · ·
Cleveland, special service squadron	
1 aircraft carrier, second line: Langley (ex-Jupiter), being converted, navy yard, Norfolk; date completion, May 1, 1922: will be commissioned about Apr. 1, 1922.	
May 1, 1922: will be commissioned about Apr. 1, 1922.	-;
3 mine layers, second line: Baltimore, Pacific Fleet, mine squad; 2 at Pearl Harbor to go out of commission	1
Baltimore, Pacific Fleet, mine squad; 2 at Pearl Harbor to go out of commission when relieved by Aroostook. Aroostook, Pacific Fleet, aircraft tender, goes to mine force when relieved by	
Shangey. 126 destroyers, first line: Distribution of 90 per cent complement destroyers— With Atlantic Fleet	•1••••• •.
126 destroyers, first line:	i
With Atlantic Fleet	į
With Pacific Fleet 57 With Asiatic Fleet 19 In European waters 8	i
In European waters.	!
	_'
Total 103 Distribution of 50 per cent complement destroyers— At Charleston 23	10.
At Charleston	1
Destroyers, second line: None.	1
10 light mine layers: Murray, Atlantic Mine Squadron	.1
Israel, Atlantic Mine Squadron	-;
Maury, Atlantic Mine Squadron	-!
Murray, Atlantic Mine Squadron. Israel, Atlantic Mine Squadron. Maurry, Atlantic Mine Squadron. Mahan, Atlantic Mine Squadron. Hart, Asiatic Mine Squadron.	·
Hart, Asiatic Mine Squadron. Ingraham, Pacific Mine Squadron. Ludlow, Pacific Mine Squadron. Burns, Pacific Mine Squadron. Anthony, Pacific Mine Squadron. Rizal, Asiatic Mine Squadron.	-
Burns, Pacific Mine Squadron.	:
Anthony, Pacific Mine Squadron	- i
Kizai, Asiatic Mine squadron	• • • • • • •
84 submarines, first line:	ı
16 O's. 27 R's.	:i
38 S'e	. 1
3 T's	٠,
27 submarines, second line:	;
8 H's 8 K's	
8 L's. 3 N's.	1
3 N's	-
35 patrol vessels:	!
Eagle 6, at Pearl Harbor, engaged in antisubmarine factics	-
Eagle 8, at Pearl Harbor, engaged in antisubmarine tactics.	•;••••
Eagle 6, at Pearl Harbor, engaged in antisubmarine tactics. Eagle 7, at Pearl Harbor, engaged in antisubmarine tactics. Eagle 8, at Pearl Harbor, engaged in antisubmarine tactics. Eagle 9, fifth naval district, training reservists. Eagle 11, duty with submarines at San Pedro (personnel shown under shore establishment).	• • • • • •
tablishment).	
tablishment). Eagle 12, training reservists, eleventh naval district. Eagle 13, training reservists, third naval district. Eagle 14, duty with submarines at Pearl Harbor (personnel shown under shore	• • • • • • • • • • • • • • • • • • • •
Eagle 14, duty with submarines at Pearl Harbor (personnel shown under shore	
establishment). Eagle 15, training reservists, third naval district. Eagle 17, duty with submarines, Hampton Roads (personnel shown under shore establishment).	•
Eagle 15, training reservists, third havai district	-;
establishment)	•
Eagle 19, training reservists, first naval district	-1
Eagle 26, training reservists, third naval district	.
Eagle 27, training reservists, third naval district	-
Eagle 31, duty submarines at Coco Solo (personnel shown under shore estab-	1
lishment).	• ••••
Eagle 17, duty with submarines, Hampton Roads (personnel shown under shore establishment). Eagle 19, training reservists, first naval district. Eagle 23, on duty, Quantico, freight and passengers to Washington. Eagle 26, training reservists, third naval district. Eagle 27, training reservists, third naval district. Eagle 29, training reservists, first naval district. Eagle 31, duty submarines at Coco Solo (personnel shown under shore establishment). Eagle 33, duty submarines, New London (personnel shown under shore establishment).	<u> </u>
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Allocation of 50,000 men aftoat to ships of the Navy (including 18 battleships, 103 destroyers, and 84 submarines, with full complement and auxiliary craft), balance of men to be distributed to such other ships required so far as possible—Continued.

SUMMARY-Continued.

	Person- nel.	7 per cent replace- ments.
5 patrol vessels—Continued.	i	
Eagle 34, training reservists, eleventh naval district		
Eagle 35, training reservists, twelfth naval district.	•¦•••••	
Eagle 30, training reservists, eighth naval district	•;•••••	• • • • • • • • • • • • • • • • • • • •
Eagle 36, training reservists, eighth naval district Eagle 38, training reservists, thirteenth naval district Eagle 39, training reservists, seventh naval district	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Eagle 39, training reservists, seventh naval district Eagle 42, training reservists, first naval district Eagle 42, training reservists, third naval district. Eagle 47, training reservists, twelfth naval district Eagle 48, training reservists, third naval district Eagle 48, training reservists, third naval district Eagle 51, training reservists, third naval district Eagle 52, training reservists, fourth naval district Eagle 53, training reservists, third naval district		·
Eagle 42, training reservists, first naval district	-	
Eagle 44, training reservists, third naval district	-	·
Eagle 47, training reservists, twellen haval district	-	.
Eagle 51, training reservists, third naval district	-1	.;
Eagle 52, training reservists, fourth naval district		
Eagle 54, training reservists, third naval district		
Eagle 55, training reservists, third naval district	-'	· • • • • • • • • • • • • • • • • • • •
Eagle 30, training receivists, wasnington, D. C		• • • • • • • • • •
Eagle 58 training reservists, uniteenth havan district		· · · · · · · · · · · · · · · ·
Eagle 54, training reservists, third naval district. Eagle 55, training reservists, third naval district. Eagle 56, training reservists, Washington, D. C. Eagle 57, training reservists, thirteenth naval district. Eagle 58, training reservists, Pearl Harbor. Eagle 59, training reservists, third naval district.	.]	
SUMMARY OF EAGLES (PRESENT DETAIL).	1	
commission (35):	i	'
Training reservists	.	,
Submarine duties		1
Air station duty		1
Ferry, Washington to Quantico		1
Total35		1
tretrol veccele enhancine checere:	ł	
Submarine chaser 57, Naval Academy, intermittently training midshipmen		
Submarine chaser 63, St. Louis, training reservists		
Submarine chaser 57, Naval Academy, intermittently training midshipmen. Submarine chaser 63, St. Louis, training reservists. Submarine chaser 61, St. Louis, training reservists.		
Submarine chaser 69, St. Petersburg, training reservists		
Submarine chaser 61, St. Louis, training reservists. Submarine chaser 69, St. Petersburg, training reservists. Submarine chaser 102, Naval Academy, intermittently training midshipmen. Submarine chaser 104, Tampa, Fla., training reservists. Submarine chaser 104, Tampa, Fla., training reservists. Submarine chaser 154, seventh naval district, cable watch, Key West. Submarine chaser 154, seventh naval district, cable watch, Key West. Submarine chaser 156, Dahlgren, Va., proving ground duties, New Orleans, La. Submarine chaser 191, eighth naval district, training reservists. Submarine chaser 191, ighth naval district, training reservists. Submarine chaser 210, New York and Washington, training reservists. Submarine chaser 214, Haiti, activities, marine brigade, Haiti. Submarine chaser 224, third naval district, training reservists.		· . • • • • • • • • • • • • • • • • • •
Submarine chaser 104, Tampa, Fla., training reservists.		
Submarine chaser 143, New York, training reservists		
Submarine chaser 154, seventh naval district, cable watch, Key West		
Submarine chaser 159, eighth naval district, station duties, New Orleans, La		• • • • • • • • • •
Submarine chaser 18), Danigren, Va., proving ground duties		
Submarine chaser 192. Indianhead, proving ground duties.		
Submarine chaser 210, New York and Washington, training reservists		
Submarine chaser 214, Haiti, activities, marine brigade, Haiti		. .
Submarine chaser 223, Haiti, activities, marine brigade, Haiti		
Submarine chaser 224, third haval district, training reservists	.	· · · · · · · · · · · ·
Submarine chaser 231. Naval Academy, intermittently training midshipmen		
Submarine chaser 237, Naval Academy, intermittently training midshipmen	.!	
Submarine chaser 251, Indianhead, Md., out of commission		-! -
Submarine chaser 253, Haiti, activities, marine brigade, Haiti		. '
Submarine chaser 271, Stamtord, Conti., training reservists		• . • • • • • • • • • • • • • • • • • •
Submarine chaser 278, eleventh naval district, duty with reserve destroyer force		
Submarine chaser 284, fifteenth naval district, submarine operations		
Submarine chaser 285, fifteenth naval district, seaplane tender		
Submarine chaser 257, fifteenth naval district, undergoing overhaul		
Submarine chaser 303, twellin haval district, calibration compasses	,·	
Submarine chaser 326 Naval Academy intermittently training midshinmen		-,
Submarine chaser 328, Naval Academy, intermittently training midshipmen		-
Submarine chaser 330, ninth naval district, training reservists	.	
Submarine chaser 223, Haiti, activities, marine brigade, Haiti. Submarine chaser 224, third naval district, training reservists. Submarine chaser 229, Naval Academy, intermittently training midshipmen. Submarine chaser 231, Naval Academy, intermittently training midshipmen. Submarine chaser 237, Naval Academy, intermittently training midshipmen. Submarine chaser 231, Baiti, activities, marine brigade, Haiti. Submarine chaser 271, Stamford, Conn., training reservists. Submarine chaser 271, Stamford, Conn., training reservists. Submarine chaser 278, eleventh naval district, duty with reserve destroyer force Submarine chaser 278, eleventh naval district, submarine operations. Submarine chaser 285, fifteenth naval district, saplane tender. Submarine chaser 287, fifteenth naval district, undergoing overhaul. Submarine chaser 303, twelfth naval district, calibration compasses. Submarine chaser 306, eleventh naval district, tuties connection with Pacific Fleet Submarine chaser 328, Naval Academy, intermittently training midshipmen. Submarine chaser 329, Naval Academy, intermittently training midshipmen. Submarine chaser 330, ninth naval district, training reservists. Submarine chaser 341, Guantanamo, ordered St. Thomas to replace submarine chaser 341, Guantanamo, ordered St. Thomas to replace submarine	:	i
Craser 72.	-	- ₁
Submarine chaser 412 ninth naval district training recervists		
Submarine chaser 419, ninth naval district, training reservists		
Submarine chaser 341, Guantanamo, ordered St. Thomas to replace submarine chaser 408, first naval district, general district duties. Submarine chaser 412, ninth naval district, training reservists. Submarine chaser 419, ninth naval district, training reservists. Submarine chaser 419, ninth naval district, ordered to third naval district for training reservists.	:	· · · · · · · · · · · · · · · · · · ·
training reservists.		
Submarine chaser 432, ninth naval district, at Cleveland, training reservists		
Submarine chaser 433, ninth naval district, ordered to third district, train-		

63- 0

Allocation of 50,000 men aftoat to ships of the Navy (including 18 battleships, 10 stroyers, and 84 submarines, with full complement and auxiliary craft), balance of m be distributed to such other ships required so far as possible—Continued.

SUMMARY-Continued.

	Person- nel.	rej m
SUMMARY OF EAGLES (PRESENT DETAIL)—continued.	i	_
43 patrol vessels, submarine chasers—Continued. Submarine chaser 437, ninth naval district, ordered to third district, train-	! !	
ing reservists		•••• ••••
Submarine chaser 443, San Domingo, duties connection military government, Dominican Republic Submarine chaser 444, San Domingo, duties connection military government, Dominican Republic	i i	
SUMMARY OF SUBCHASERS (PRESENT DETAIL).	ļ	
Training midshipmen	!!	
Training reservists 17 District and naval station duties 17 Submarine and scaplane duties 2		
Total 44 9 patrol vessels, gunboats:		
Wilmington, Asiatic Fleet, Yangtze patrol at Amoy Palos, Asiatic Fleet, Yangtze patrol Sacramento, Asiatic Fleet, assigned orders to proceed withheld.		
Sacramento, Asiatic Fleet, Sangtre patrol Asheville, Asiatic Fleet (assigned), orders to proceed withheld Eleano, Asiatic Fleet (assigned), orders to proceed withheld Eleano, Asiatic Fleet, Yangtze putrol. Pampanga, Asiatic Fleet, south China patrol.		
Asheville, Asiatic Fleet (assigned), orders to proceed withheld		••••
Pampanga, Asiatic Fleet, south China patrol		
Quiros, Asiatic Fleet, Yangtze patrol Villalobos, Asiatic Fleet, Yangtze patrol 5 patrol yessels (yachts):		
Mayflower, navy yard, Washington (President). Vixen, naval station, St. Thomas (station ship).	160	
Vixen, naval station, St. Thomas (station ship)	• • • • • • • • • • • • • • • • • • • •	· · -
Nokomis, San Domingo city (station ship and transport for military government).	••••••	
Sylph, ravy yard, Washington (Navy Department tender) Nokomis, San Domingo city (station ship and transport for military government). Isabel, Asiatic Fleet, Yangtze patrol. Scorpion	122	
6 auxiliaries, destroyer tenders: Melville	449	
Black Hawk Bridgeport	440 520	
Altair Denebola	450 450	
Rigel	450	
auxiliaries, submarine tenders: Fulton	134	
Bushnell	19"	
BeaverCamden	292 344	
Camden Rainbow Savannah	297 338	
Canopus	282	
auxiliary, aircraft tender, Wright auxiliaries, repair ships:	286 i	
Prometheus, Atlantic Fleet (train). Vestal, Pacific Fleet (train).	، ادييو، • • • • • • •	
Cauxiliaties, store ships:	430	
Bridge, Atlantic Fleet (train) Rappahannock, Pacific Fleet (train) Aretic, Atlantic Fleet (train)		
Arctic, Atlantic Fleet (train).	268	
auxiliaries, colliers; Proteus, Atlantic Fleet	164	
Nercus, Atlantic Floot		
Orion, Mantie Fleet	164 164	
Arethusa, N. T. S. Atlantic Brazos, Atlantic Fleet	120	
Cuvama Pacific Fleet	120	
Kanawha, Pacific Fleet Neches, Pacific Fleet Patoka, N. T. S. Pacific	120 : 101	
Patoka, N. T. S. Pacific	91	
Pecos, Asiatic Fleet	120	
Ramapo, N. T. S. Pacific Trinity, N. T. S. Atlantic Sapelo, N. T. S. Atlantic	91	

50,000 men aftoat to ships of the Navy (including 18 battleships, 103 ded 84 submarines, with full complement and auxiliary craft), balance of men to ed to such other ships required so far as possible—Continued.

SUMMARY-Continued.

	Person- nel.	7 per cent replace- ments.
MARY OF SUBCHASERS (PRESENT DETAIL)—continued.		
munition ships:		
	177 177	12
go ships:		
we		

	• • • • • • • • • •	
• • • • • • • • • • • • • • • • • • • •		
nsp orts :	• • • • • • • • • • • • • • • • • • • •	
	397	28
	222 214	16 15
pital ships:		15
	361	25
et tugs:	•••••••	
ghth naval district, Pensacola, air-station duties		
seventh naval district Key West, district towing	•••••	•••••
ghth naval district, Pensacola, air-station duties seventh naval district Key West, district towing irteenth naval district Puget Sound, district towing. Annapolis, Chesapeake Bay towing. In duty with Atlantic Fleet teenth naval district Puget Sound, district towing.	• • • • • • • • • • • • • • • • • • •	
n duty with Atlantic Fleet	39	3
teenth naval district Puget Sound, district towing th naval district Philadelphia, district towing ourteenth naval district Pearl Harbor, island duties. (th naval district Norfolk, air station duties the naval district Sor Diago, district fouring	•••••	• • • • • • • • • • • • • • • • • • • •
ourteenth naval district Pearl Harbor, island duties		
fth naval district Norfolk, air station dutiesth naval district San Diego, district towing	• • • • • • • • •	
in navarus in the ban Diego, district towing.	• • • • • • • • • • • • • • • • • • • •	
rteenth naval district Puget Sound, district towing		
d naval district New York rteenth naval district Puget Sound, district towing naval district Boston, district towing. uantanamo, general towing , island duties. 100a, island duties	• • • • • • • • •	• • • • • • • • • •
, island duties.		
noa, island duties	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
ti, island duties		
st naval district Boston, district towing teenth naval district Canal Zone, air-station duties ixteenth naval district Cavite, Asiatic Fleet		
ixteenth naval district Cavite, Asiatic Fleet	• • • • • • • • • • • • • • • • • • • •	
ird naval district Iona Island, ammunition depot duties		
nth naval district Canal Zone, district towing		
luty with Pacific Fleet	54	1
. I nomas, isiand dudes		
welfth naval district, Mare Island, district towingth naval district, Charleston, district towing	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
twelfth naval district, Norfolk, district towing.		
ine sweepers:	40	
tanamo, train, Atlantic merton, thirteenth district	45	3
rl Harbor, mine squadron, Pacific	54	4
n Pedro, train, Pacific ntanamo, mine squadron, Atlantic	45	3
e, mine squadron, Asiatic		
anamo, train, Atlantic	45	3
n Diego, train, Pacificantanamo, train, Atlantic	45	3
suamo, mine force, Atlantic		
namo, mine force, Atlantic ton, air squadron, Atlantic iego, train, Pacific an Pedro, train, Pacific	45	3
an Pedro, train, Pacific	45	3
an Pedro, train, Pacific namo, train, Atlantic Vork Navy Yard, submarine salvage vessel. Harbor, mine squadron, Pacific		
York Navy Yard, Submarine Salvage vessel	54	
	45	3
rl Harbor mine squadron, Pacific	54 45 54 54	4
l, Pearl Harbor, mine squadron, Pacificte, mine squadron, Asiatic	04	
antanamo, mine squadron, Atlantic hiladelphia, special duty, Bureau of Ordnance.		

Allocation of 50,000 men aftoat to ships of the Navy (including 18 battleships, 105 instruyers, and 84 submarines, with full complement and auxiliary craft), balance of men is be distributed to such other ships required so far as possible—Continued.

SUMMARY-Continued.

	Person- nel.	7 per cent replace- ments.
SUMMARY OF SUBCHASERS (PRESENT DETAIL)—continued.		
26 auxiliaries, mine sweepers—continued. Gannet, San Pedro, seaplane tender, Pacific		I
SUMMARY, MINE SWEEPERS (PRESENT DETAIL).	ł	
Atlantic train 5 Pacific train 5 Atlantic Air Squadron 2 Atlantic Mine Squadron 4 Pacific Mine Squadron 4 Asiatic mine detachment 2 Pacific air tender 1 Submarine salvage 1		
Alaska radio calibration 1 Bureau of Ordnance exeptimental purposes 1	ļ	
Total		
Hannibal, survey ship: now at work, coast of Honduras. General Alava, Asiatic Station, transport, Cavite to Olongapo. Paducah, navy yard, Portsmouth; assigned ninth naval district for United States Naval Reserve Force. Gold Star, fitting out at Philadelphia; Alaska radio repair ship, replaces Saturn.		
Gold Star, fitting out at Philadelphia; Alaska radio repair ship, replaces Saturn.		
Procyon, target repair ship.	91	
Annonalis looned to State of Pennsylvania as nautical school ship	ł	
Boston, receiving ship, San Francisco Cheyenne, training ship, United States Naval Reserve Force, fifth district, Bal- timore		
Chicago, submarine shore-based tender at Pearl Harbor.		
Coast B. S. No. 4 (ex-Iowa), target ship, radio-controlled. Essex, ninth naval district, training United States Naval Reserve Force. Gopher, ninth naval district, training, United States Naval Reserve Force. Hartford, receiving ship, Charleston, S. C., naval relic. Hawk, ninth naval district, training United States Naval Reserve Force. Kearsarge, crane ship under conversion, navy yard, Philadelphia. Nantucket, loaned to State of Massachusetts as nautical school ship. Newport, loaned to State of New York as nautical school ship. Old Constellation, station ship. Newport, naval relic.		
Hartford, receiving ship, Charleston, S. C., naval relic.		
Kearsarge, crane ship under conversion, navy yard, Philadelphia.		
Nantucket, loaned to State of Massachusetts as nautical school ship		
Old Constellation, station ship, Newport, naval relic		
Oregon, navy yard, Puget Sound, out of commission, naval relic		
Reina Mercedes, Naval Academy, station ship		
Newport, loaned to State of New York as nautical school ship Old Constellation, station ship, Newport, naval relic Old Constitution, navy yard, Boston, naval relic Oregon, navy yard, Puget Sound, out of commission, naval relic Philadelphia, navy yard, Puget Sound, receiving ship Reina Mercedes, Naval Academy, station ship Southery, navy yard, Portsmouth, receiving ship Wilmette, ninth naval district, training United States Naval Reserve Force. Wolverine, fourth naval district, training United States Naval Reserve Force.		
commodore, ninth naval district, training officed States Naval Reserve Force.		
Wilmette, inith naval district, training United States Naval Reserve Force. Wolverine, fourth naval district, training United States Naval Reserve Force. Yantic, ninth naval district, training United States Naval Reserve Force. Commodore, ninth naval district, hulk bedded in concrete, station ship for training reserves. Sturgeon Bay, at Norfolk; out of commission; to be loaned to State of New York; to be transferred to Buffalo for New York Naval Militia. Briarcliff, at Staten Island; loaned status, New York; training Naval Militia.		••••••
Briarchii, at Staten Island; loaned status, New York; training Naval Militia	• • • • • • • • • • • • • • • • • • • •	••••••

SHIPS (INCLUDING 18 BATTLESHIPS, 103 DESTROYERS, AND 84 SUP-MARINES, WITH FULL COMPLEMENT) WHICH ARE REQUESTED, BASED UPON 50,000 MEN FOR SEA DUTY.

BATTLESHIPS, FIRST LINE.

Mr. Kelley. Admiral, you have put in the 18 battleships with 21,231 men, and that is the number that you have asked for for next year for the battleships heretofore?
Admiral COONTZ. Yes, sir.

CRUISERS, SECOND LINE.

. Kelley. Three cruisers of the second line, 1,805 men, and is the exact number you have asked for the cruisers? Imiral Coontz. Except that we asked for five.
cretary Denby. I think he meant the personnel?
Imiral Coontz. No, the number of men asked for. We asked

ive and this accounts for three.

r. Kelley. There were three cruisers in the original list? imiral Coontz. I think there were five.

r. Kelley. Are these three cruisers of the second line, the three ored cruisers, Huron, Pueblo, and Seattle? imiral Coontz. No, sir; they are the Rochester, Seattle, and rleston.

r. Kelley. And you have eliminated dmiral Coontz (interposing). The Pueblo and Huron.

r. Kelley. The number of men asked for the Seattle, Charleston, Rochester are the same as you asked for heretofore? dmiral COONTZ. With the exception of the Seattle. We reduced to replace the Connecticut to 612 men.

r. Kelley. You have stricken out the Huron and the Pueblo?

dmiral Coontz. Yes, sir.

r. Kelley. The five cruisers, Birmingham, Cleveland, Denver. eston, and Tacoma have you entirely eliminated those? dmiral Coontz. Entirely from the list.

LIGHT CRUISERS, FIRST LINE.

r. Kelley. And the three light cruisers? dmiral Coontz. They remain the same as before. r. Kelley. With the same number of men on each? dmiral Coontz. Yes, sir; they are military fighting units. r. Kelley. The new ones? dmiral Coontz. Yes, sir.

AIRCRAFT CARRIER.

J. KELLEY. One aircraft carrier? dmiral Coontz. The Langley remains the same.

MINE LAYER, SECOND LINE-DESTROYERS, FIRST LINE.

r. Kelley. And the one mine layer? dmiral COONTZ. We leave out the one mine layer and retain the wmut, with the same number of men. Ir. Kelley. The 103 destroyers with the 102 men on board of dmiral Coontz. They remain and the 23 destroyers in reserve are

dr. Kelley. The 10 light mine layers? Idmiral COONTZ. They are reduced by two.

Mr. Kelley. You have kept the same complement that you ured on before? Admiral COONTZ. Yes, sir.

SUBMARINES, FIRST LINE.

Mr. Kelley. Eighty-four submarines?

Admiral COONTZ. They are first-line submarines and are kept with the same number.

Mr. Kelley. That will be about an average of 30 for each one. Admiral Coontz. And the 27 submarines, second line, are left out entirely.

PATROL VESSELS.

Mr. Kelley. Besides, you reduce the number of patrol vessels how many?

Admiral COONTZ. The patrol vessels are left out in their entirety. Mr. Kelley. Special duty craft, is the Mayflower now in that list! Admiral Coontz. It is under the heading of patrol vessels, yachte; we followed your classification. Under patrol vessels, gunboats, all are omitted.

Mr. Kelley. How many were there, 12?

Admiral COONTZ. We had nine.

Mr. Kelley. Under which list is the Mayflower?

Admiral Coontz. Yachts, on page 10.

Mr. Kelley. We have not reached that yet?

Admiral COONTZ. No, sir.

Mr. Kelley. The patrol vessels, gunboats, are left out entirely? Admiral Coontz. Yes, sir.

Mr. Kelley. And the patrol vessels, yachts, except the Mauflower and Scorpion !

Admiral Coontz. Yes, sir; we retain only two.

DESTROYER, SUBMARINE, AND AIRCRAFT TENDERS.

Mr. Kelley. The six destroyer tenders? Admiral Coonty. Retained with the complements. Mr. Kelley. Seven submarine tenders? Admiral Countz. Yes, sir. Mr. Kelley. One aircraft tender! Admiral Coontz. Yes, sir.

REPAIR AND STORE SHIPS, COLLIERS, OILERS, AND AMMUNITION SHIPS.

Mr. Kelley. One repair ship?

Admiral COONTZ. One repair ship retained and one left out

Mr. Kelley. With the same complement?

Admiral Coontz. Yes, sir.

Mr. Kelley. One store ship?

Admiral Coontz. Retained and two left out.

Mr. Kelley. Are the three colliers the same?

Admiral Coontz. One left out.

Mr. Kelley. The seven oilers!

Admiral COONTZ. We have retained seven and three are left out.

Mr. Kelley. The ammunition ships?

Admiral COONTZ. We retain both.

Mr. Kelley. Three transports? Admiral COONTZ. We retain three transports. Mr. Kelley. There were just three transports and you keep those? Admiral Coontz. Yes, sir.

HOSPITAL SHIPS.

Mr. Kelley. One hospital ship? Admiral COONTZ. We leave one out.

Mr. Kelley. How could you leave out one hospital ship?
Admiral Coontz. Simply because we had to. There is no question but that a hospital ship would go before a combatant vessel would go. Mr. Kelley. You would have this one in the Atlantic or Pacific?

Admiral COONTZ. In the Pacific.

Mr. Kelley. And bring the boys to shore?

Admiral COONTZ. You would have to when you got an opportunity. Mr. Kelley How many men on each of these hospital ships?

Admiral Coontz. Three hundred and sixty-one on one and 348 on the other.

Mr. Kelley. Which one do you leave the 361?

Admiral COONTZ. Yes, sir.

Mr. Kelley. That involves the question of 348 men?

Admiral Coontz. Yes, sir.

Mr. Kelley. You would put that hospital ship out of commission rather than find 348 men somewhere?

Admiral Coontz. If it were a case of necessity.

TUGS, MINE SWEEPERS, ETC.

Mr. Kelley. What was the next, 12 fleet-towing vessels reduced to 9, 2 tugs and 7 mine sweepers?

Admiral Coontz. Yes, sir.

Mr. Kelley. Those are really all tugs?

Admiral Coontz. I believe they are.

Captain Lackey. They were built for mine sweepers.

Mr. Kelley. Fashioned after a tug?

Captain Lackey. Yes, sir. If you saw the two together, you could not tell the difference.

Mr. Kelley. You reduce the 10 mine sweepers to 5?

Commander Hill. Four for duty with mine squadron and one is an aircraft tender.

Mr. Kelley. With the same unit complement for those?

Admiral Coontz. The aircraft tender has a little less complement than the regular mine sweepers; the same as we have been talking of before.

Mr. Kelley. The two target repair ships reduced to one? Admiral COONTZ. Yes, sir.

FLAGSHIPS.

Mr. Kelley. And the flag complement from 1,111 to 600? Admiral Coontz. Yes, sir.

Mr. Kelley. The fleet tugs are left as they were?

Admiral COONTZ. Yes, sir. There are a few other craft which we have left out which should be enumerated.

Mr. Kelley. Please put in at this point, Admiral, the enumeration of the vessels which you have left out from the list that we discussed on Friday.

Admiral Coontz. By name? Mr. Kelley. Put them in the record by name; yes, sir.

Additional ships requested to be kept by Navy, complements of which are based up 50,000 men for sea duty.

	Comp
Battleships, second line:	
Illinois, loaned to State of New York, training Naval Militia	5
Connecticut, to be replaced by Seattle	9
Cruisers, second line:	
Huron, flagship, Asiatic Fleet	7
Pueblo, to replace Utah in European waters later	7
Light cruisers, first line, none.	
Light cruisers, second line:	
Special-service squadron— Birmingham	
Denver	3 2
Galveston	5
Tacoma	- 1
('leveland	1
Aircraft carriers, second line, none.	
Mine layers second line:	
Baltimore, to be replaced	- }
Aroostook	:
Destroyers, first line, none. Destroyers, second line, none.	
Destroyers, in reserve, 23	1.:
Light mine lavers:	
Hart	
Rizal	
Submarines, first line, none.	
Submarines, second line:	
8 H's	l
8 K's	} .
3 V'a	
3 N's. Patrol vessels, Eagles, all training reservists in naval districts:	,
No. 6	
No. 7	
No. 8	
No. 9	
No. 11, submarine base. No. 12.	
No. 13.	
No. 14 submarine hase	
No. 15	
No. 17 submarine base.	
No. 19.	
No. 23	
No. 26. No. 27.	
No. 29.	
No. 31, submarine base.	
No. 33, submarine base.	
No. 34	
No. 35	
No. 36	
No. 38	
No. 39	
No. 42.	
No. 44	
No. 47	
No. 48	
No. 51	

ol v No	essels, Eagles, all training reservists in naval districts—Continued.	Co m
No.	52	•
No.	55	•
	56	
	57	
No.	58	
No.	59essels, submarine chasers, all training reservists, midshipmen, etc.:	
nl v	essels submarine chasers all training reservists midshipmen etc.	
N _A	57	
	63	
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No.	69	
No.	102	
	103	
	104	
NO.	143	
NO.	154	
No.	159	
No.	185	
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No.	224	
No.	229	
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	esels, gunboats:	
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on	ocacy	
	no	
	panga	
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11 4	Asiatic Fleet, Yangtze and South China patrol, Asheville	
gi s	tic Fleet (orders to proceed withheld), Isabel	
1	seels, Asiatic Fleet, Yangtze patrol:	
	money research recei, ranguae pantil.	
	n	
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A STATE OF
Auxiliaries:
Destroyer tenders, none.
Submarine tenders, none.
Aircraft tenders, none.
Repair ships, Prometheus
Atlantic Fleet, train:
Auxiliaries, store ships—
Bridge
Andr
Arctic
Auxiliaries, colliers, Nereus
Atlantic Fleet:
Auxiliaries, oilers—
Arethusa
Trinity
Sapelo
Auxiliaries, ammunition ships, none.
Auxiliaries, cargo ships—
Auxinaries, cargo simps—
Kittery
Newport News.
Bath
Capella
Sirius
Vega
Regulus.
Beaufort.
Auxiliaries, transports, none.
Auxiliaries, hospital ships, Mercy
\uxiliaries, fleet tugs:
Sixth naval district, Pensacola, air station, Allegheny
Seventh naval district, Kev West, district towing, Bay Spring
Seventh naval district, Kev West, district towing, Bay Spring
Annapolis, Chesapeake Bay, towing, Chemung
Annapolis, Chesapeake Bay, towing, Chemung. Thirteenth naval district, Puget Sound, district towing, Iroquois
Fourth payal district Philadelphia district towing Kalmia
Fourth naval district, Philadelphia district, towing, Kalmia. Fourteenth naval district, Pearl Harbor, island duties, Keosanqua
Fifth nevel district Verille in station, island duties, Reconfiguration
Fifth naval district, Norfolk, air station duties, Kewaydin
Eleventh havai district, San Diego, district towing, Koka
Eleventh naval district, San Diego, district towing, Koka. Third naval district, New York, Lykens. Thirteenth naval district, Puget Sound, district towing, Mahopac.
Thirteenth naval district, Puget Sound, district towing, Mahopac
First naval district, Boston, district towing, Mohave
Guantanamo, general towing, Montcalm
Guam, island duties, Napa
Samoa, island duties, Ontario
Haiti, island duties, Osceola
First naval district, Boston, district towing, Patapsco
First naval district, Doston, district towning, Latapeter
Fifteenth naval district, Canal Zone, A. S. duties, Patuxent. Sixteenth naval district, Cavite, Asiatic Fleet, Piscataqua
Sixteenth navai district, Cavite, Asiatic Fleet, Fiscataqua
Santo Domingo, island towing, Potomac. Third naval district, Iona Island, ammunition depot, Sagamore
Third naval district, Iona Island, ammunition depot, Sagamore
Fifteenth naval district, Canal Zone, towing, Sciota.
Fourteenth naval district. Pearl Harbor, island duties, Sunnadin.
St. Thomas, island duties, Tadousac Thirteenth naval district, Mare Island, towing, Tillamook
Thirteenth naval district. Mare Island, towing, Tillamook.
Sixth payal district Charleston towing I magus
Sixth naval district, Charleston, towing, Umpqua Twelfth naval district, Norfolk, towing, Undaunted
a weith havar district, Norton, towing, Chaumeet
Auxiliaries, mine sweepers:
Bremerton, thirteenth district, Swallow Guantanamo, mine squadron, Atlantic, Curlew
Guantanamo, mine squadron, Atlantic, Curlew
Cavite, mine squadron, Asiatic, Finch
Guantanamo, train, Atlantic, Bobolink
Guantanamo mine force Atlantic Lark
Guantanamo, mine force, Atlantic, Lark
Guantanamo, mine force, Atlantic, Lark
Guantanamo, mine force, Atlantic, Lark
Guantanamo, mine force, Atlantic, Lark. Charleston, air squadron, Atlantic, Teal. Guantanamo, train, Atlantic, Rail. New York Yard, submarine salvage vessel, Falcon.
Guantanamo, mine force, Atlantic, Lark. Charleston, air squadron, Atlantic, Teal. Guantanamo, train, Atlantic, Rail. New York Yard, submarine salvage vessel, Falcon. Cavite, mine squadron, Asiatic, Bittern.
Guantanamo, mine force, Atlantic, Lark. Charleston, air squadron, Atlantic, Teal. Guantanamo, train, Atlantic, Rail. New York Yard, submarine salvage vessel, Falcon.

uxiliaries, mine sweepers—Continued.	Comple- ment.
Guantanamo, mine squadron, Atlantic, Mallard	
Miami, air squadron, Atlantic, Sandpiper	45
Guantanamo, train, Atlantic, Vireo.	45
Auxiliaries, miscellaneous:	
Survey ship Hannibal	146
Asiatic station transport Cavite to Olongapo, General Alava	
Navy yard, Portsmouth, assigned ninth district for U. S. Naval Reserve	٠.
Force, Paducah.	
Alaska radio repair ship, replaces Saturn, Gold Star	. 97
Target repair ship Antares.	91
Inclassified:	01
Loaned State Pennsylvania as nautical school ship, Annapolis	
Receiving ship at San Francisco Boston	160
Receiving ship at San Francisco, Boston	34
Submarine shore based tender at Pearl Harbor, Chicago	385
Target ship radio controlled, Coast B. S. No. 4.	000
Ninth naval district training, U. S. Naval Reserve Force, Essex	18
Ninth naval district training, U. S. Naval Reserve Force, Gopher	. 15
Receiving ship Charleston, S. C., Hartford	75
Ninth naval district training, U. S. Naval Reserve Force, Hawk	6
Crane ship under conversion, Philadelphia, Pa., Kearsarge	227
Loaned State Massachusetts as nautical school ship, Nantucket	
Loaned State New York as nautical school ship, Newport	
Station ship, Newport, naval relic, Old Constellation.	17
Navy yard, Boston, naval relic, Old Constitution.	5
Navy yard, Puget Sound, out of commission, naval relic, Oregon	U
Navy yard, Puget Sound, receiving ship, Philadelphia	109
Naval Academy station ship, Reina Mercedes	91
Navy yard, Portsmouth, receiving ship, Southery	47
Ninth naval district, training U. S. Naval Reserve Force, Wilmette	25
Fourth naval district, training U. S. Naval Reserve Force, Wolverine	20 8
Ninth naval district, training U. S. Naval Reserve Force, Yantic	15
Ninth naval district, Hulk bedded in concrete, station ship, training	10
reserves, Commodore	6
At Norfolk, out of commission, to be transferred Buffalo for New York	U
Naval Militia, Sturgeon Bay	
At Staten Island, loaned status, New York training Naval Militia,	
Briarcliff	
DITAINITE	
	10.00

Mr. Kelley. Please take the list as to the ones to be kept in ommission.

BATTLESHIP, SECOND LINE, BATTLE CRUISERS, AND LIGHT CRUISERS.

Admiral Coontz. The *Illinois*.

Mr. Kelley. She was not in your list?

Admiral Coontz. She has been in the list all the time.

Mr. Kelley. How many men?

Captain Williams. Fifty men, a temporary complement.
Admiral Coontz. The following have been left out: Huron, 791
1en; Pueblo, 791; Birmingham, 300; Denver, 288; Galveston, 288;
Tacoma, 288; Cleveland, 288.

Mr. Kelley. Those are the five cruisers?

Admiral Coontz. Yes, sir. Aroostook, 250; 23 destroyers in reuced commission.

When the Paducah arrives at Duluth, she will share the complement of the Essex; the Paducah and the Essex 3. ((See the Essex.)

DESTROYERS, EAGLES, SUBMARINE CHASERS, AUXILIARIES, ETC.

Mr. Kelley. How many on the destroyers?

Admiral Coontz. Thirteen hundred and eleven. *Hart*, 99; Riza, 99; 27 submarines, second line, 430; 35 eagles, 350; 44 subchasen,

approximately 215.

Wilmington, 162; Palos, 46; Sacramento, 149; Monocacy, 46; Ashville, 148; Elcano, 93; Pampanga, 30; Quiros, 55; Villalobos, 55; Vixa, 72; Sylph, 32; Nokomis, 66; Isabel, 83; Prometheus, 430; Bridge, 189; Arctic, 188; Nereus, 164; Arethusa, 78; Trinity, 91; Sapelo, 91; Kittery, 87; Newport News, 113; Bath, 88; Capella, 91; Sirius, 91; Vega, 91; Regulus, 91; Beaufort, 72; Mercy, 348; Allegheny, 30; Best Spring, 24; Challenge, 14; Chemung, 20; Iroquois, 20; Kalmia, 30; Keosanqua, 39; Kewaydin, 30; Koka, 30; Lykens, 30; Mahopac, 30; Mojave, 20; Montcalm, 39; Napa, 39; Ontario, 54; Osceola, 34; Patapso 30; Patuxent, 30; Piscataqua, 44; Potomac, 42; Sagamore, 20; Sciols, 20; Sunnadin, 39; Taudusoc, 39; Tillamook, 12; Umpqua, 30; Undaunted, 22; Swallow, 41; Curlew, 54; Finch, 54; Bobolink, 45; Lak, 54; Teal, 45; Rail, 45; Falcon, 54; Bittern, 54; Chewink, 54; Cormorant, 54; Mallard, 54; Sandpiper, 45; Vireo, 45; Hannibal, 146; General, Alava, 54; Paducah, shares complement with Essex; Gold Star, 97; Antares, 91.

I will have to look up the Antares, and the Annapolis has no complement. A number of them are training reserves. There are about

30 of them training reserves.

SHIPS USED FOR TRAINING RESERVES.

Mr. Kelley. What is the sum total of those 30 training reserves? Admiral Coontz. Twenty-five eagles, 17 submarine chasers, and 6 miscellaneous vessels. I think we would have to pull them out. The Boston is a receiving ship at San Francisco; the Cheyenne has 34; the Chicago is attached to a submarine base at Pearl Harbor,; the complement of the ex-Iowa is combined with that of the Ohio, and both go out of commission; the Essex has 18; the Gopher has 15; the Hartford is a receiving ship; the Hawk has 6; the Kearsarge is not in commission; the Nantucket has no Navy personnel; the Newport has no Navy personnel; the Constitution is carried under shore stations; the Constitution is carried under shore stations; the Oregon is out of commission—another relic; the Philadelphia is a receiving ship; the Reina Mercedes is at the Naval Academy, Annapolis; the Southery is a receiving ship; the Wilmette has 25; the Wolverine, 8; the Yantic, 15; the Commodore, 6; the Sturgeon Bay, nothing. I have nothing under Sturgeon Bay. She would come under shore stations. The Briardiff belongs at New York.

That is the end of the list.

Mr. Kelley. Do you remember how many that takes out, or have you added it up?

Admiral Coontz. About 13,227. I will have to go over it and

verify the figures.

Mr. Kelley. In revising your remarks, put them under the proper classifications.

Admiral Coontz. I will do so.

Mr. Kelley. I would like for you to do that so that we may prewe the classification with the original list, in order that anybody making a comparison or in checking the list over would know actly what classifications those ships are taken out of. They were one list together, and I would like for you to separate them, giving a number of men added for each group. Then let the footings w that the 10,000 have been eliminated by reason of those ships. Admiral Coontz. I will do so.

Secretary DENBY. I would like to put in a statement in the form of

etter at this point, covering the matter just gone over.

Mr. Kelley. When the hearings come down to you for revision, I gest that you insert your letter at this point. (The statement referred to is as follows:)

> SECRETARY OF THE NAVY. Washington, March 18, 1922.

IY DEAR MR. CHAIRMAN: I have received your letter of March 16 suggesting that bureaus be informed in time to prepare estimates on the basis of a Navy of 65,000 n and giving a schedule of dates on which the different bureau representatives are appear before the committee. The bureaus have been instructed accordingly, you are now hearing them from day to day. In the meantime the department been engaged upon the very difficult task of allocating the personnel upon the rothetical basis of 65,000 men.

send you inclosed herein a list of ships to be retained upon the basis of 65,000 men

shore stations, together with the personnel for their necessary operation.

he calient facts to be considered in connection with the study of these figures are: l) That our available force for sea is 46,000, because in the opinion of the depart-nt it is vitally necessary for the best interests of the Navy and the Government to p the vessels referred to in commission and the shore station activities as a necessary

- 2) Six battleships of the first line, being all the 12-inch gun ships, will of necessity nto ordinary with complements only large enough to preserve them and keep them ly for as quick action as possible. I also call your attention in this connection he fact that this involves the withdrawal of the flaship *Utuh* from the European adron and the abandonment of that station. It is the opinion of the department t for the national defense it is better to have 12 full complement, ready-for-action ps than it is to have 18 part complement ships not ready for action. I personally leve that a ship too greatly undermanned is a sick ship and will be of little account ettle.
- 3) In addition to the 46,000 actually serving on ships, the arbitrary 7 per cent lacements bring up the figure to 50,550, leaving for shore stations only 14,450. 4) The destroyers are reduced to 65 with 90 per cent complements, with 50 in erve with 50 per cent complements.

5) All submarines, second line, are placed out of commission.6) Practically all Eagle boats, subchasers, and other small craft now used for

ining reservists or other purposes go out of commission.

7) If we are to consider the appropriation for the year as of July 1 to be on the sis of 65,000 men, we must start the year on July 1 with 65,000 men. That means must reduce between the date of the appropriation bill for the cal year 1923, should it contain the figure of 65,000, by getting rid, by discharge or herwise, of approximately 31,000 men. The committee will readily appreciate the ficulty that confronts the department in such a procedure, concerning which we all be happy to make further explanation upon call.

In the submission of our figures it must always be remembered that the Navy is mobile force; that it is subject to constant unexpected demands and changes, and erefore all detailed figures must be considered as only tentative, subject to change

the department as necessity arises.

In regard to the figure submitted, I must further inform you that it is wholly inadeate in the estimation of the department to properly man the United States Navy. will necessitate leaving ships of vital importance out of the battle line. ablished in the naval treaty which is now before the Senate for consideration is the three great naval powers, the United States, Great Britain, and Japan, 5-5-3. der the personnel allowance of 65,000, according to our best information, this ratio ll be reduced to 21-5-3 for the United States, Great Britain, and Japan, respectively; or, more concretely, the American personnel will be one-half that of G Britain and will be considerably less than that of Japan. I need not comment with the extraordinary spectacle thus presented.

Sincerely yours,

EDWIN DENE

Hon. Martin B. Madden,
Chairman Committee on Appropriations,
House of Representatives.

March 16, 1922.

	Person- nel.	rej se
12 battleships, first line (95 per cent complements)	14, 244	
6 battleships, first line (in ordinary).	1,236	
4 cruisers, second line	2,506	
3 light cruisers, first line	1, 257	
3 light cruisers, second line	876	
1 aircraft carrier, second line.	339	
1 mine layer, second line 65 destroyers, first line (90 per cent complements) 50 destroyers, first line (50 per cent complements)	356	
65 destroyers, first line (90 per cent complements)	6, 630	
50 destroyers, first line (50 per cent complements)	2, 850	
4 light mine layers.	2, 579	
84 submarines, first line 10 patrol vessels, gunboats	2, 319 886	
4 patrol vessels.	420	
5 destrover tenders.	2,309	
7 submarine tenders.	1, 882	
1 aircraft tender	286	
1 repair ship	430	٠.
1 store ship	268	1
2 colliers	328	1
7 oilers	763	1
2 ammunition ships	354 451	١.
5 cargo vessels	S33	9
0 trainsports	361	t.
5 cargo vessels. 3 transports. 1 hospital ship. 5 tugs (includes 6 station ships). 10 mine sweepers (2 mine sweeping, 7 fleet towing, and 1 air tender). 4 auxiliaries, miscellaneous. Flag complements. Fleet avaation.	340	1
10 mine sweepers (2 mine sweeping, 7 fleet towing, and 1 air tender)	477	1
4 auxiliaries, miscellaneous	388	1
Flag complements	791	9
Fleet aviation	1,100	١.
Total	46,000	1
12 battleships, first line (95 per cent complements):		t
Pacific Fleet—	1 9/9	1
New York	1,243	***
Nevada	1, 127	100
Oklahoma	1,127	1
Pennsylvania	1,176	
Arizona	1,170	
New Mexico	1,208	
Mississippi	1,170	mir.
Idaho	1,170	
Tennessee	1,203	
California Maryland (assigned)	1, 203	***
Maryland (assigned)	1, 204	1
Total	14, 244	
6 battleships, first line (in ordinary):		T
In ordinary—	gan	
Delaware	206 206	
North Dakota	206	
Florida	206	
Florida		
Utah (European waters, flag)	206	10.00
Utah (European waters, flag)	206 206	
Utah (European waters, flag). Wyoming. Arkansas.	206	Ë
Utah (European waters, flag). Wyoming. Arkansas. Total		=
Utah (European waters, flag). Wyoming. Arkansas. Total. 2 battleships, second line:	206	=
Utah (European waters, flag). Wyoming. Arkansas. Total. 2 battleships, second line: Illinois, loaned to State of New York, training Naval Militia.	206 1,236	
Utah (European waters, flag). Wyoming Arkansas. Total. 2 battleships, second line: Illinois, loaned to State of New York, training Naval Militia. Connecticut, to be replaced by armored cruiser Seattle if treaty is signed.	1,236	
Utah (European waters, flag). Wyoming. Arkanisas. Total. 2 battleships, second line: Illinois, loaned to State of New York, training Naval Militia. Connecticut, to be replaced by armored cruiser Seattle if treaty is signed. Battle cruisers, first line: None 24 to be converted to aircraft carriers).	1,236	
Utah (European waters, flag). Wyoming Arkansas. Total. 2 battleships, second line: Illinois, loaned to State of New York, training Naval Militia. Connecticut, to be replaced by armored cruiser Seattle if treaty is signed.	206 1,236	

	Person- nel.	7 per cent replace- ments.
and line—Continued. vy yard, Puget Sound, out of commission (Seattle to replace Con-		
if treaty is signed). replace Utah in European waters later.	612	
, Pacific Fleet destroyer flagship.	649	•••••
	2,596	182
. And line:		
;, first line: unmission when completed Mar. 31, 1922	419	
hen completed	888	
	1,257	88
s, second line: vice squadron—	1 1	
ngham	300	
r	288 288	• • • • • • • • • • • • • • • • • • • •
18		
and	••••••	• • • • • • • • • • • • • • • • • • • •
	876	61
er, second line: Langley (ex-Jupiter), being converted at navy yard,		
e completion May 1, 1922; will be commissioned about Apr. 1, 1922	339	24
, Pacific Fleet, mine squadron 2, at Pearl Harbor to go out of commis- n relieved by Aroostock.		• • • • • • • • • • • • • • • • • • • •
, Pacific Fleet aircraft tender, goes to mine force when relieved by		
Atlantic Fleet, mine squadron 1	356	25
ntic Fleet		
ific Fleet 19 tic Fleet 19 an waters 19		
. 65	-	ĺ
00	6,630	464
first line (50 per cent complement): ston and San Diego.	6, 630 2, 850	
first line (50 per cent complement): ston and San Diego cond line: None. ayers:	1	
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: line squadron—	1	
first line (50 per cent complement): <ton and="" ayers:<="" cond="" diego.="" line:="" none.="" san="" td=""><td>1</td><td></td></ton>	1	
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: ine squadron— y.	1	
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: nine squadron— y.	1	
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: line squadron— y. n. ne squadron—	1	
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: ine squadron— y. ne squadron— ne squadron— ine squadron— ine squadron—	2, 850	
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first line (50 per cent complement): ston and San Diego. cond line: None. ayers: nine squadron— y. ne squadron— ne squadron— ne squadron— lam w	2, 850	
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first line (50 per cent complement): ston and San Diego. cond line: None. ayers: line squadron— y. ne squadron— ne squadron— lam w iny. ne aquadron—	2, 850 95 95 95 95 432	200
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: line squadron— y. ne squadron— ne squadron— lam w iny. ne aquadron—	95 95 95 95 432 720	200
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: line squadron— y. ne squadron— ne squadron— lam w iny. ne aquadron—	2, 850 95 95 95 95 432	200
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: nine squadron— y. ne squadron— ne squadron— ne squadron— nam w ny nr ne aquadron— il. , first line:	95 95 95 95 380 432 729 1, 292	270
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: nine squadron— y. ne squadron— ne squadron— ne squadron— iam w ny ny ne aquadron— il. , first line:	95 95 95 95 380 432 729	270
first line (50 per cent complement): ston and San Diego. cond line: None. ayers: nine squadron— y. ne squadron— ne squadron— ne squadron— iam. w. iny. ne aquadron— il. , first line:	95 95 95 95 380 432 729 1, 292 126 2, 579	27
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Spatrol vessels, Eagles—Continued. Eagle 13, training reservists, third naval district. Eagle, 14, duty with submarines at Pearl Harbor (personnel shown under shore establishment). Eagle 15, training reservists, third naval district. Eagle 19, training reservists, first naval district. Eagle 23, on duty Quantico, freight and passengers to Washington. Eagle 23, training reservists, third naval district. Eagle 29, training reservists, third naval district. Eagle 29, training reservists, third naval district. Eagle 29, training reservists, third naval district. Eagle 31, duty submarines at Coco Solo (personnel shown under shore establishment). Eagle 33, training reservists, twelfth naval district. Eagle 34, training reservists, twelfth naval district. Eagle 35, training reservists, twelfth naval district. Eagle 36, training reservists, third earl district. Eagle 38, training reservists, seleventh naval district. Eagle 39, training reservists, sint naval district. Eagle 40, duty air station, Pearl Harbor. Eagle 41, training reservists, first naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 48, training reservists, third naval district. Eagle 51, training reservists, third naval district. Eagle 52, training reservists, third naval district. Eagle 53, training reservists, third naval district. Eagle 54, training reservists, third naval district. Eagle 55, training reservists, third naval district. Eagle 56, training reservists, third naval district. Eagle 57, training reservists, third naval district. Eagle 58, training reservists, third naval district. Eagle 59, training reservists, third naval district. Eagle 59, training reservists, third naval district. Eagle 59, training reservists, third naval district. Eagle 59, training reservists, third naval district. Eagle 59, training reservists, third naval district.		
Eagle 15, training reservists, third naval district. Eagle 17, duty with submarines, Hampton Roads (personnel shown under shore establishment). Eagle 19, training reservists, first naval district. Eagle 23, on duty Quantico, freight and passengers to Washington. Eagle 26, training reservists, third naval district. Eagle 29, training reservists, third naval district. Eagle 31, duty submarines at Coco Solo (personnel shown under shore establishment). Eagle 33, duty submarines, New London (personnel shown under shore establishment). Eagle 34, training reservists, eleventh naval district. Eagle 36, training reservists, twelfth naval district. Eagle 38, training reservists, telfth naval district. Eagle 38, training reservists, seleventh naval district. Eagle 38, training reservists, seleventh naval district. Eagle 39, training reservists, seleventh naval district. Eagle 40, duty air station, Pearl Harbor. Eagle 42, training reservists, first naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district. Eagle 47, training reservists, third naval district.		
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Fagle 55 training recervists third naval district	•	
Date 7, training 1981 vists, till district IV	•	
Eagle 57, training reservists, washington, D. C. Eagle 57, training reservists, thirteenth naval district.		
Eagle 58, training reservists, Pearl Harbor. Eagle 59, training reservists, third naval district.		
In commission 35—		
Training reservists	l	į į
Training reservists 25 Submarine duties 8 Air-station duty 1 Ferry, Washington to Quantico 1	ł	1
rerry, wasnington to Quantico	4	1
Total. 35 43 patrol vessels, submarine chasers: Scout cruiser 57. Naval Academy, intermittently training midshipmen.		
Scout cruiser 57, Naval Academy, intermittently training midshipmen. Scout cruiser 63, St. Louis, training reservists. Scout cruiser 64, St. Louis, training reservists.		
Scout cruiser 64, St. Louis, training reservists.		
Scout cruiser 69, St. Petersburg, training reservists Scout cruiser 102, Naval Academy, intermittently training midshipmen Scout cruiser 103, Now Haven, Conn., training reservists Scout cruiser 104, Tampa. Fla. training reservists		
Scout cruiser 104, Tampa. Fla., training reservists.		
Scout cruiser 143, New York, training reservists		
Scout cruiser 159, eighth naval district, station duties, New Orleans, La	ļ	
Scout cruiser 104, Tampa, Fla, training reservists. Scout cruiser 143 New York, training reservists. Scout cruiser 143, Seventh naval district, cable watch, Key West. Scout cruiser 154, seventh naval district, station duties, New Orleans, La. Scout cruiser 185, Dahlgren, Va., proving ground duties. Scout cruiser 191, eighth naval district, training reservists. Scout cruiser 192, Indianhead proving ground duties. Scout cruiser 210, New York and Washington, training reservists. Scout cruiser 214, Haiti, activities, marine brigade, Haiti Scout cruiser 224, third naval district, training reservists. Scout cruiser 221, third naval district, training reservists. Scout cruiser 229, Naval Academy, intermittently training midshipmen. Scout cruiser 237, Naval Academy, intermittently training midshipmen. Scout cruiser 237, Naval Academy, intermittently training midshipmen. Scout cruiser 251, Indianhead, Md., out of commission. Scout cruiser 271, Stanford, Conn., training reservists.		
Scout cruiser 210, New York and Washington, training reservists.		
Scout cruser 214, Haiti, activities, marine brigade, Haiti Scout cruser 223, Haiti, activities, marine brigade, Haiti		
Scout cruiser 224, third naval district, training reservists. Scout cruiser 229, Naval Academy, intermittently training midshipmen		
Scout cruiser 231, Naval Academy, intermittently training midshipmen	•••••	
Scout cruiser 251, Indi inhead, Md., out of commission.		
Scout cruiser 271, Stanford, Conn., training reservists.		
Scout cruiser 277, eleventh naval district, duty with reserve destroyer force Scout cruiser 278, eleventh naval district, duty with reserve destroyer force		
Scout cruiser 233, Hautt, activities, marine brigade, Hautt. Scout cruiser 277, Stanford, Conn. training reservists. Scout cruiser 277, eleventh naval district, duty with reserve destroyer force. Scout cruiser 278, eleventh naval district, duty with reserve destroyer force. Scout cruiser 284, fifteenth naval district, submarine operations. Scout cruiser 285, fifteenth naval district, seplane tender. Scout cruiser 303, twelfth naval district, undergoing overhaul. Scout cruiser 303, twelfth naval district, culibration compasses. Scout cruiser 308, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305, eleventh naval district district of the scout cruiser 305 eleventh naval district district of the scout cruiser 305 eleventh naval district district district of the scout cruiser 305 eleventh naval district district district district of the scout cruiser 305 eleventh naval district di	•••••	
Scout cruiser 287, fifteenth naval district, undergoing overhaul.	••••••	
Scout cruiser 306, eleventh naval district, duties connection with Pacific Fleet	• • • • • • • • • • • • • • • • • • • •	
Scout cruiser 306, eleventh naval district, duties connection with Pacific Fleet Scout cruiser 326, Naval Academy, intermittently training midshipmen. Scout cruiser 329, Naval 'cademy, intermittently training midshipmen. Scout cruiser 339, ninth naval district, training reservists.		
Scout cruiser 339, ninth naval district, training reservists		
Scout cruiser 340, St. Thomas Scout cruiser 408, first naval district, general district duties. Scout cruiser 412, ninth naval district, training reservists. Scout cruiser 410, ninth naval district, training reservists.		
Scout cruiser 419, ninth naval district, training reservists.		

	Person- nel.	7 per cent replace- ments.
submarine chasers—Continued. 31, ninth naval district, ordnance third naval district for training	į	l
32, ninth naval district, at Cleveland, training reservists		
33, ninth naval district, ordnance third district, training reservists 37, ninth naval district, ordnance third district, training reservists		
40, Naval Academy, intermittently training midshipmen		
43, San Domingo, duties connection military government, Domin-		
ic		
ic		
mmary (present detail)—		
nidshipmen 8 eservists 17		
eservists		
id naval station duties. 17 and seaplane duties. 2)
unboats:		l
siatic Fleet, Yangtze patrol at Amoy	162	
Fleet, Yangtze patrolsiatic Fleet, assigned orders to proceed withheld	46	
atic Fleet, assigned orders to proceed withheld	149 46	
Fleet, assigned orders to proceed withheld	148	
Fleet, Yangtze patrol iatic Fleet, South China patrol	92	
iatic Fleet, South China patrol	30	
atic Fleet, Yangtze patrol	55 55	
atic Fleet, Yangtze patrol Fleet, Yangtze patrol	83	
	866	61
vy yard, Washington (President)	160	
tation, St. Thomas (station ship)	72	
Domingo City (station ship and transport for military government)	66	
tantinople station ship	132	
	430	30
at norman tandama		
stroyer tenders:	449	
	440	
	520	
	450 450	•••••
	2,309	162
marine tenders:		
	134	
	195 292	
	344	
	297	• • • • • • • • • • • • • • • • • • • •
	338 282	• • • • • • • • • • • • • • • • • • • •
	202	•••••
	1,882	132
craft tenders: Wright	286	20
air ships:		
tlantic Fleet (training)Fleet (training)	430	30
re ships:	200	30
c Fleet (training)	<u></u> .	
, Pacific Fleet (training)	268	19
c Fleet (training)liers:	••••••	••••••
tic Fleet		
ic Fleet	164	•••••
Fleet.	164	
	328	23
ers:		
. S. Atlantic		•••••
c Fleet	120 120	•••••
V * * * V V * · · · · · · · · · · · · ·	1	••••••

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	Person- nel.	; ; ;
10) Availler siles Centinued	1	:-
10) Auxiliary oilers—Continued. Kanawha, Pacific Fleet	120 101	
Total.		4
		+
Patoka, N. T. S. Pacific Pecos, Asiatic Fleet. Ramapo, N. T. S. Pacific. Trinity, N. T. S. Atlantic. Sapelo, N. T. S. Atlantic.	91 130 91	l
Sapelo, N. T. S. Atlantic		+
Total	763	
8) Auxiliaries, ammunition ships: Pyro Nitro	177 177	
Total	354	Ī
i) Auxiliaries, cargo ships: Kittery	87	
Bath	1	ŀ
Capella Sirius	91	l
Vega. Regulus.	91	1
Beaufort		
Total	451	
) Auxiliaries, transports:		
Henderson Argonne	222	ı
Chaumont	214	
Total	833	
) Auxiliaries, hospital shipe: Relief	361	
Total	361	1
		┪
9) Auxiliaries, fleet tugs: Allegheny, eighth naval district, Pensacola, air station duties. Bay Spring, seventh naval district, Key West, district towing. Challenge, thirteenth naval district, Puget Sound, district towing. Chemung, at Annapolis, Chesapeake Bay towing. Contocook, on duty with Atlantic Fleet. Iroquols, thirteenth naval district, Puget Sound, district towing. Kalmia, fourth naval district, Philadelphia, district towing. Keosanqua, fourteenth naval district, Pearl Harbor, island duties. Kewaydin, fith naval district, Norfolk, air station duties. Koka, eleventh naval district, San Diego, district towing. Lykens, third naval district, New York. Mahopac, thirteenth naval district, I'uget Sound, district towing. Montealm, Guantanamo, general towing.		
Contocook, on duty with Atlantic Fleet. Iroquols, thirteenth naval district. Puget Sound, district towing Kalmia, fourth naval district, Philadelphia, district towing	39	
Kewaydin, fifth naval district, Norfolk, air station duties		l
Koka, eleventh naval district, San Diego, district towing		l
Mahopac, thirteenth naval district, Puget Sound, district towing	• • • • • • • • • • • • • • • • • • • •	1
Montealm, Guantanamo, general towing. Napa, Guam, island duties. Ontario, Samoa, island duties.	39	1
Ontario, Samoa, island duties.	39 54	ı
Patapsco, first naval district, Boston, district towing.	34	l
Patuxent, fifteenth naval district, Canal Zone, air station duties	• • • • • • • • • • • • • • • • • • • •	ŀ
Potomac, Santo Domingo, island towing.	42	۱
Sciota, fifteenth naval district, Canal Zone, district towing.	• • • • • • • • • • • • • • • • • • •	
Potomac, Santo Domingo, island towing. Sagamore, third naval district, Iona Island, ammunition depot duties. Sciota, fiteenth naval district, Canal Zone, district towing. Sonoma, on duty with Pacific Fleet. Sunnadin, fourteenth naval district, Pearl Harbor, island duties. Tadousac, St. Thomas, island duties. Tillamook, twelfth naval district, Mare Island, district towing.	54	J
Tadousac, St. Thomas, island duties. Tillamook, twelfth naval district, Mare Jeland, district towing	30	
o mpqua, sixtu navai district, charleston, district towng		٠
Undaunted, twelfth naval district, Norfolk, district towing		
	340	
Total		
Total i) Auxiliaries, mine sweepers: Robin, Guantanamo, training, Atlantic Swallow, Bremerton, thirteenth district. Tanager, Pearl Harbor, mine squadron, Pacific	45	

	Person- nel.	7 per cent replace- ments.
mine sweepers—continued.		
	45	
antanamo, mine squadron, Atlantic.		
atanamo, training. Atlantic	45	
Ban Diego, training, Pacific	45	
Juantanamo, training, Atlantic		
eston, air squadron. Atlantic		
an rearmo, training, Facilic antanamo, mine squadron, Atlantic tie, mine squadron, Aslatic ttanamo, training, Atlantic lan Diego, training, Pacific luantanamo, training, Atlantic ttanamo, mine force, Atlantic eston, air squadron, Atlantic Diego, training, Pacific San Pedro, training, Pacific San Pedro, training, Pacific anamo, training, Atlantic w York yard, submarine salvage vessel arl Harbor, mine squadron, Pacific lego, training, Pacific earl Harbor, mine squadron, Pacific vite, mine squadron, Pacific vite, mine squadron, Aslatic uantanamo, mine squadron, Atlantic Philadelphia, special duty, Bureau of Ordnance. n Pedro, seaplane tender, Pacific lantanamo, mine squadron, Atlantic Miami, air squadron, Atlantic Miami, air squadron, Atlantic litanamo, training, Atlantic	45	
San Pedro, training, Pacific	45	
W York yard submarine salvage vessel		
arl Harbor, mine squadron, Pacific	54	
Diego, training, Pacific	45	
cill Pearl Harbor, mine squadron, Pacific		
vite, mine squadron, Asiatic		
uantanamo, mine squadron, Atlantic		
n Pedro seenlane tender Pacific	54	• • • • • • • • • • • • • • • • • • • •
iantanamo, mine squadron, Atlantic		
Miami, air squadron, Atlantic		
itanamo, training, Atlantic	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	477	33
e sweepers (present detail):		
itning, fleet towing		
·squadron 2		
ne squadron 4 e squadron 4	1	
e detachment.	1	
ender 1		
salvage	1	
o calibration. 1 ordnance experimental purposes. 1		
		
miscellaneous: urvey ship; now at work coast Honduras	146	
va, Asiatic station; transport, Cavite to Olongapo	54	• • • • • • • • • • • • • • • • • • • •
val Reserve Force	07	• • • • • • • • • • • • • • • • • • • •
get renair ship		
rget repair ship	91	
val Reserve Force tting out at Philadelphia; Alaska radio repair ship, replaces Saturn. get repair ship rget repair ship.	388	27
	900	
d:		
t: oaned State of Pennsylvania as nautical school ship.		
1: .oaned State of Pennsylvania as nautical school ship		• • • • • • • • •
d: oaned State of Pennsylvania as nautical school ship. siving ship, San Francisco.		• • • • • • • • •
d: oaned State of Pennsylvania as nautical school ship. siving ship, San Francisco.		• • • • • • • • •
d: .oaned State of Pennsylvania as nautical school shipiving ship, San Franciscoraining ship, United States Naval Reserve Force, fifth district, Balomarine shore-based tender at Pearl Harbor. No. 4 (ex-lowa), target ship, radio controlleda naval district training, United States Naval Reserve Force.		
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d: .oaned State of Pennsylvania as nautical school shipiving ship, San Franciscoraining ship, United States Naval Reserve Force, fifth district, Bal- marine shore-based tender at Pearl Harbor. No. 4 (ex-lowa), target ship, radio controlleda naval district training, United States Naval Reserve Forceth naval district training, United States Naval Reserve Forceceiving ship, Charleston, S. C., naval relich naval district training, United States Naval Reserve Forcecrane ship under conversion, navy yard, Philadelphialoaned State Massachusetts as nautical school ship .aned State New York as nautical school ship .ation, station ship, Newport, naval reliction, navy yard, Boston, naval relictrain Pares Sanda out of comprision years Isalia.		
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Distribution of forces on shore, based on Navy of 65,000 men (46,000 men after

Shore-base tenders	l,
District vessels	L
Receiving ships and barracks	7
Navy vards	1.
Training stations (150 caretakers)	
Trade schools (includes students)	
Hospitals	Ļ
Naval prisons	,
Communications	l.
A viation	1.
Ammunition depots and torpedo stations	-
Recruiting	
RecruitingMen_under training	3,
Replacements	4
•	
Grand total	19.

DISTRICT CRAFT.

DESIGNATION.

Mr. Kelley. There is one classification of seagoing craft that did not have your comment on the other day, and that is the dist craft, which were put down in the Paymaster General's report, syou were going to look them up. You will find that on page of the paymaster's report for 1921. There appears to have been expended \$4,307,136.97 for district craft, and we have not been to find out what ships those were.

Secretary Denby. They are also covered as district craft in No

districts.

Mr. Kelley. This comes under the title of fleet maintenance.

Secretary Denby. You will remember that we had a discuss about that the other day.

Mr. Kelley. If they are improperly classified here, we want

know that.

Admiral Coontz. I would like to make this statement regard those figures: Under the heading of Statement No. 4, naval distrition on page 155 of the Annual Report of the Paymaster Genera the Navy for the fiscal year 1921, there is a charge of \$4,307,136 made up of six subtotals under an equal number of headings tributed among the 14 naval districts. This charge is not an appriation charge, but is a summary of items under many appropriation which contribute to the expense of the 14 naval districts.

The figures include charges ashore and afloat within each not district which are not charged to a specific ship or station. It is not include charges to ships and stations which are otherwise a rately listed in the report of the Paymaster General. Thus, on possible 154 are listed certain specific ships and stations. The charton naval districts does not include these particular ships and station general, it does not include tugs and patrol vessels, because the will be found separately listed. In general, it may be said the includes the "District craft" listed in the Ship's Data Book, those ships which have been separately listed elsewhere in the master General's report, specifically tugs and patrol vessels. It not include charges which are specifically made to any large states.

thin a naval district. During the war it was the custom to re-pitulate under the heading "Naval districts" the expenses of all all activities within each naval district which did not amount to re than \$50,000 for the year. This procedure is still in force in a peral way, and consequently the recapitulation under the heading naval districts is a catchall for small items. In regard to floating aipment and small miscellaneous craft, these are assigned to each val district for general utility and service, such as salvage, wrecking, edging, rescue work, etc. Some of these craft are retained for neral work in the district, and in such cases their charges are resitulated under the heading "Naval districts." On the other nd, most of these craft are assigned to a specific large station, in ich case they are carried as belonging to that station. It is thus in that the physical and geographic layout of a naval district has ne influence on whether these miscellaneous craft can be assigned a specific station, or whether they are retained under the comindant of the naval district for general service of all of the activities the immediate locality.

The charges under the recapitulation, "Naval districts" include ms like the following: The headquarters organization, pay for val personnel, pay for civil personnel, rations and subsistence, its, rifle ranges, training camps, coal barges, oil barges, stevedoring rges, torpedo testing barges, water barges, floating derricks, ferryats, launches, ammunition lighters, ash lighters, freight lighters, rbage lighters, pile drivers, floating workshops, seaplane barges, bulance boats, heating scows, dredges, seaplanes, wrecking der-ks, and mud scows, where they are not carried separately or signed to a specific station. I refer you to pages 326 and 331 of e Ship's Data Book, July 1, 1921, for the allocation of these craft

the districts.

Captain Leutze is here and can make any further explanation of is matter you desire. These are what might be called small tch alls on the coast of the United States, and such places which brought under these headings, and where the money is provided der other appropriations, from "Pay, miscellaneous" on down.

Mr. Kelley. They are not district craft?

Admiral Coontz. Yes, sir.

Mr. Kelley. They are not included with these other ships? Admiral Coontz. Yes, sir; district craft is a very minor thing. Mr. Kelley. This charge is not minor.

Admiral Coontz. I mean as compared with the large-sized ships.

SEPARATION OF CHARGES AGAINST DISTRICT CRAFT AND SHORE STATIONS.

Secretary Denby. Is there any way of separating the charges ainst these district craft from the shore charges?

Mr. REED. No, sir; we can not analyze them that way. Secretary DENBY. You can not get the exact personnel and the

Admiral Coontz. One item is \$450,000 for rent.

Mr. REED. No, sir; there is no rent under this.

Mr. Kelley. Mr. Reed, this is your work—the Paymaster Genal's report?

Mr. REED. Yes, sir.

Mr. Kelley. Are there any charges under this heading that an

properly chargeable against shore stations?

Mr. REED. In the expense of personnel, or enlisted personnel, then are probably some charges of that kind that come in where the so counts of the personnel attached are carried on the ships. In other words, although actually employed on shore, and while their duties are on shore, their accounts are carried on the ships.

TOTAL OPERATING EXPENSES.

Mr. Kelley. What do you mean by the column, "Total operating expenses, \$3,826,000"? That is operating expenses of what? Do that relate to ships or to shore stations; and if it is for shore station why do you put it in here?

Mr. Reed. The charges were reported or the accounts were negligible ported by the disbursing officers having charge of floating equipment. The charges were reported in that way as charges against floating

equipment.

Mr. Kelley. The charges were reported to you as having be incurred against floating matériel of the Navy, and that is why you it here?

Mr. REED. Yes, sir.

Mr. Kelley. Is there anything in there for the support of she stations, so far as you know?

Mr. REED. The only item that would be in there in connecti

with shore stations would be pay of personnel.

Mr. Kelley. If it were pay of personnel for people on shore, would not be in here, would it?

Mr. REED. If they were reported as being attached to a ship.
Mr. Kelley. That is to say, every dollar in this table was report to you as having been incurred on vessels afloat?

Mr. Reed. No, sir; not vessels afloat. Mr. Kelley. As attached to vessels?

Mr. Reed. Yes, sir: or some floating equipment.

Secretary DENBY. We have a very similar question in regard

the shore-based submarines.

Mr. Kelley. That is different. This naval district business is expensive luxury, and it is one place where we can use the kn The admiral told us the other day that there were no vessels attact to these places, and now we have a list of I don't know how me barges and other vessels attached to these stations.

Admiral Coontz. I still stand on my statement, and I disp the statement of Mr. Reed as to how the money is spent. I wo like to have a representative of the Paymaster General's Depi ment to make an explanation of it. We got this list from the I reau of Supplies and Accounts, and I dispute that statement of !

Reed.

Mr. Kelley. You can see how helpless a committee of Congis, if you and your officers do not know where the charges are.

Secretary DENBY. A statement will be forwarded to you cover that.

CRAFT OPERATED UNDER "FLEET MAINTENANCE."

Mr. Kelley. Somebody should know where this \$5,000,000 has sen spent; that is, whether on shore or whether on vessels attached shore stations used as barracks or for other purposes. to know what it is for, because this makes quite a difference.

Secretary DENBY. You want a list of the barges?

Mr. Kelley. If you or if we are going to ask Congress to appronate \$5,000,000 for these districts, it will be necessary for us to now something about these vessels that are running up and down coast. It will be necessary for us to know what they are and hat they are for. We want to know why these vessels that were Dt being kept up before the war are being kept up now. We want know why all these little craft are used, and why they are pernitted to burn up coal and oil fuel. From the item of pay of men ere alone, amounting to about \$934,000, it would seem that there re about 1,000 men involved here.

Colonel ROOSEVELT. I know in a general way about it, but I in not itemize it. I know about where the money goes, and it bes partly one way and partly another. In so far as the district

expenses go, they are carried under different heads.

Secretary Denby. They have always had these harbor craft that around and attend upon the ships and stations. You have got have coal barges, tugs, scows, and all those things.

Mr. Kelley. Are those tugs manned by enlisted men?

Admiral COONTZ. Most of them.

Mr. Kelley. The water barges and other craft of that kind

carried on this list here are manned by enlisted men?

Admiral Coontz. A good many of them are. About 1,500 men re required to man all of these craft. These things have always been assigned at navy yards, and we have always had tugs, coal barges, and lighters of different kinds. What I want to bring out that so far as I know there are no district craft running up and own on the coast, except what we have gone over already.

Mr. Kelley. I understood you to say the other day that you ad given us a full list of the vessels, but now you give us another

Colonel ROOSEVELT. I think we are talking at cross purposes. link the admiral intended to say that the lighters, derricks, water arges, etc., are not vessels. I think the admiral has been using hat as the dividing line.
Admiral COONTZ. Yes, sir.

Mr. Kelley. I do not need to tell the admiral what a ship is. appose that anything that floats should go on this list, or that was bidea I had. Here is a list in the report of the Paymaster General the Navy, under upkeep of the Navy. This is under the title of Fleet maintenance," and there is an item of \$5,000,000 in there ader "Fleet maintenance." Now, we want to find out what ships

Admiral Coontz. I can give you a statement of all the craft at

the navy yards which have not been tabulated elsewhere.

Mr. Kelley. These are not included in the cost of maintenance of essels at navy yards proper, nor under shore activities.

Admiral County. They should be charged to navy yards as a activities in almost every case.

Mr. Kelley. Mr. Reed, what small navy-yard craft are put de

as shore craft?

Mr. REED. The expenses of barges, lighters, and things of t kind that are specifically attached to a particular station are report in these tables as expenses of the station.

Mr. Kelley. Of shore stations?

Mr. REED. Yes, sir.

Mr. Kelley. Then the vessels not attached to any navy yard station are purely district craft operated by district organization Mr. REED. Yes, sir; although they are temporarily at the t

assigned to work at a particular yard or station.

Colonel Roosevelt. They are functioning in the same way as other craft.

ALLOCATION OF DISTRICT CRAFT.

Mr. Kelley. Every navy yard and every naval station has a of small craft with which they handle yard business. They t water out to a ship or some material out to a ship, and it is consider as a yard proposition. It is paid for out of the Bureau of Yards Docks appropriation, is it not, or out of Steam Engineering, or C struction and Repair, but it does not come out of upkeep of the Na

Secretary Denby. Here is a memorandum on that subject. Mr. Kelley. These craft are charged against yard establishme but here is a list of craft the upkeep of which or the maintenance which amounts to \$5,000,000 a year, and these craft are not prop the property of any navy yard, but they belong to the naval dist

organizations, being made up of yachts-

Mr. Reed (interposing). Of barges, lighters, derricks, etc.

Mr. Kelley. They are not assigned to any navy yard at all. Commander Hill. They are assigned to navy yards.

Mr. Kelley. Then, if they are assigned to navy yards, they she be paid for from navy-yard funds. If they are not assigned to n yards, but are assigned to these organizations, are they paid for this way?

Admiral Coontz. Yes, sir.

OPERATION OF NAVAL DISTRICTS.

Mr. Kelley. Who has control of them, then; you or the Bur

of Construction and Repair?

Admiral COONTZ. The commandant of the naval district. have assigned them by name, and I would like to read from record-

Mr. Kelley (interposing). Let us get at the fundamental the

st. Who has charge of these naval districts?

Admiral Coontz. I look out for the commandants.

Mr. Kelley. You do not have charge directly of the navy yar

Admiral Coontz. No, sir.

Mr. Kelley. They are indirectly operated by the Bureau

Construction and Repair?
Admiral Coontz. No, sir; by the Secretary of the Navy and Assistant Secretary of the Navy.

Mr. Kelley. I know that: but the Secretary must of necessity erate them through some bureaus?

Admiral Coontz. Yes, sir.

Mr. Kelley. These naval districts are operated through you?

Admiral Coontz. Yes, sir.

Mr. Kelley. If they are operated through you, they are charged one way, but if they are operated through Construction and pair they are charged in another way.

Mr. REED. The enlisted personnel on board would be paid as they raid be on any other floating equipment, and the subsistence would

paid from the same appropriation, but the expenses would be ported in the tables as expenses for the maintenance of shore ations. The expenses that are grouped in this particular classificion cover personnel and expenses in connection with craft not ecifically and definitely assigned to any particular station. It does affect the appropriation charge. The appropriation charge uld be the same in either case.

Colonel ROOSEVELT. I know that Captain Leutze has been at the pply base at New York lately, and I think he could clear some of

ese things up.

TYPE OF SHIP COVERED BY "DISTRICT CRAFT."

Captain Leurze. Two years ago at the fleet supply base in New ork we had 14 coal barges that were attached to the base and were tried there, and we had three self-propelled oil barges. Those trees were under the direction of the commandant of the district.

the battleship fleet came in there and wanted a barge for anying, a barge would be sent up alongside. It was not only operated r the base, but for the navy yard, and sometimes we would send em to New London or Rockaway, or wherever they needed vessels this character. These are boats that are carried on the list under naval districts, and they are manned by enlisted men, but usually rold-timers who can not go to sea any more.

Mr. Kelley. The committee would like to have a list of all the aft that come properly under this head and that are not chargeable

navy yards and regular stations.

Admiral COONTZ. You will find that list on page 326, "Ships data ok, 1921."

Mr. Kelley. With the number of men reported?

Admiral Coontz. On page 326 you will find the list, covering coal arges, fuel oil barges, stevedoring barges, torpedo-testing barges, ster barges, floating derricks, ferry boats and launches, ammunition thers, ash lighters, freight lighters, garbage lighters, pile drivers, strict tugs, floating workshops, patrol vessels, and unclassified vessels. Most of this work is, of course, done at navy yards, but how e charges are made is something that Supplies and Accounts must rnish.

PERSONNEL, NAME, AND LOCATION OF DISTRICT CRAFT.

Mr. Kelley. This list shows barge at Boston. Have you gone er that to see whether you need it or not?

Admiral COONTZ. Yes, sir; we have gone over that district could fully and have reports. We have reports from all of the distrand have cut out some. For instance, in one place we cut ou per cent of the personnel, which means that some craft go Every district has reported.

Mr. Kelley. How many men are you asking for these dist

craft ?

Captain WILLIAMS. Fifteen hundred men. Mr. Kelley. Where do you ask for them?

Captain WILLIAMS. Under shore stations we have now 3,352. A coal barges have not men on board.

Mr. Kelley. I would like to have you go through this list

make a list of the live stuff.

Captain WILLIAMS. The charges are the same on that b whether we have men on or not.

Colonel ROOSEVELT. What you would like is a list of the ope ing coal barges, etc.?

Mr. Kelley. I want a list of all this which cost \$5,000,000

Colonel Roosevelt. Of course, it will not approximate t

this year.

Mr. Kelley. Of course it will not; but I mean the stuff t comes under this head, the live stuff, of course. You have give great many places as to where it is going to be, and we do not tend to say, of course, that this should be charged one place another but you ought to know just which place and you ought agree among yourselves as to which way it is, because if you do agree, of course, the patient has a hard road.

Secretary Denby. That is covered in the shore station item. Mr. Kelley. I want you to make out a list of the district c you will need next year and which appear charged in general aga

this item of \$5,000,000.

Admiral COONTZ. Very well. Would you care to have the sonnel that is attached to it?

Mr. Kelley. Yes; I think that would be a good thing. Admiral Coontz. I would prefer to do it that way.

List of district craft, showing location and personnel attached, Mar. 15, 1922.

Craft.	In service.	Complement (enlisted men).	Out of commission.	On sale
FIRST NAVAL DISTRICT. Coal barges, YC 49, 50, 51, 52, 90, 91, 92, 93, 94, 95, 97, 99, 100, 101, 102, 104, 105, 127, 180, 161,		None.		
168, 230, 249, 250, 288, 289, 299, 345, 346, 347, 348, 433, 504, 505, 507, 508, 509, 510, 511, 522, 523, 524, 525, 526, 528, 529, 530, 531, 532, 533,				
623, 624, 625, 626. Fuel oil barges: YO 3, 13, 15, 20, 39 YO 14.		None.		

istrict craft, showing location and personnel attached, Mar. 15, 1922-Continued.

reft.	In service.	Complement (enlisted men).	Out of commission.	On sale.
L DISTRICT— nued.				
barges, YS 14 ting barges:		None.		,
	Torpedo stationdo	1 55 1 28		
	Boston yard	None.		
nd 22. ricks, YD 9, 0, 23, 35, 38. nd launches:		None.		
nd launches: nsett	Torpedo station	None.		Hustle.
•••••	dodo	6 3		
No. 132	do	None.		
No. 132 No. 1048 lighters:	Portsmouth yarddo	None.		
17 and No. 23	Boston yard	None.		
30			Out	
	Melville	None.		
ers:	Squantum	None.		
8,79,80,81,82	Boston Portsmouth	None. None.		
	Newport	None.		
	Torpedo station	None.		
10.63 ter No.5	do Boston yard	None.		
nd 63 ter, No. 5 YPD. 20	do	None.		
:	Boston	11		
y	do	9		
·	do	11		
k ooley	Portsmouth yarddo	9		
	Torpedo station	19		
kehon No 15	Melville Boston, laid up	None. None.		
l, Constance	Boston	None.		
coast tor- No. 6.	Torpedo station	3 11		
es	Boston	None.		Nos. 9, 10.
L DISTRICT.				
YC 128, 258, 77, 595, 599,	New York	None.		
1. e, No. 5	do	8		À
ge, No. 50	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Loaned New York City.	•
nd 48.	New York yard	None. None.		Nos. 40, 46, 50.
icks:	do	None.	•••••	
	do	6		
	do			
, 29, 44, and	do	•••••	••••••	
nd launches,	do	5		
lighters:				
, 20, 32, 33	Iona Island	3 4		
	New York yard	8		

l charged against shore station, torpedo station. l charged against torpedo station. l charged against shore station, ordnance.

List of district craft, showing location and personnel attached, Mar. 15, 1922-Contis

Craft.	In service.	Complement (enlisted men).	Out of commission.	On sale
THIRD NAVAL DISTRICT— continued.				
Freight lighters: YF 1, 7, 92, 93, 94, 95, 96, 107, 112. YF 161	New York yard			
2, 9, and 10. Pile driver, YPD 1 Heating scows, YHT 1, 2, and 3.	dodo	i		
District tugsYT 54YT 56YT 61	New York yard	9		Pawnee. No. 53.
YT 61. YT 67	an .	, 10		No. 55. No. 63. No. 74.
YT 67 YT 81 YT 72	Submarines, New London.	115		No. 84.
Cayuga Narkeeta Pentucket	New York yarddodo	11 8 11		
YT 72	do		Edithia	
Privateer	District	5		
	City. New York yard Loaned to New York	6	Samoset	
FOURTH NAVAL DISTRICT.	chy.	 		•
Coal barges: YC 136, 255, 256, 290, 301, 506, 541, 542, 543, 544, 545, 546, 547, 548, 551, 552, 570, 571, 572, 578, 579, 594, and 602.	Philadelphia yard	None.	•••••	
and 12		1		
Fuel oil barge, No. 22 Water barge, No. 34 Ferryboats and launches. Floating derricks, Nos. 5,	Cape May Air Station.	None.	Patchogue	
Ammunition lighters.	Philadelphia yard	•		
Ash lighters, Nos. 40 and				
Freight lighters: No. 71 No. 9 Pile driver, No. 10	Cape May	None.		
Nausett	dodo	8		No. 57. No. 82.
Floating workshop, 1 R 10. Unclassified	·····ao·······························			Geo. F. Ple
FIFTH NAVAL DISTRICT.	1	1		
Ambulance bosts, Y H 3. Coalbarges, Nos. 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 273, 282, 284, 286, 291, 293, 295, 303, 305, 10, 313, 317, 318, 319, 354, 431, 432, 434, 459, 486, 485, 501, 502, 276, 461, 462, 471, 474, 473, 476, 480, 481.	Tug director	None.	УН 2	Nos. 118, 1 134.
282, 284, 286, 291, 293, 295, 303, 305, 10, 313, 317, 318, 319, 354, 431, 432, 434, 459, 486, 488, 501, 502, 276, 481, 462, 471, 474, 473, 476, 480, 481, 382, 383, 383, 383, 383, 383, 383, 383				

⁴ Personnel charged shore station, submarines.

istrict craft, showing location and personnel attached, Mar. 15, 1922—Continued.

raft.	Aft. In service. Complement (enlisted men). Out of commission.		t. In service. ment (enlisted Out of		On sale.
AL DISTRICT—tinued.					
irges, Nos. 3		None.			
rges		·····	rarily in sixth dis-		
	Tug director		YO 38 (assigned sixth	YO 19.	
g barge, YS 12.	do	ļ		\	
ge, Y W 33	dodo			YO 31.	
43.				10 31.	
and launches:	N-4-15		1	ĺ	
rard	Norfolk yarddo	9	Just arrived from first		
	i .	Į.	district.		
on lighter, YE			Repairing	1	
iters:	İ	1			
	Tug director	9			
7, 74, 91, 113, 118, 121, 123,		None.			
ю.				Nos. 53, 58, 59, 60, 61, 69, 90, 109, 76, 83, 114, 137, 138, 139, 99, 101, 102, 103, 104, 106.	
, YPD 14		None.			
		1		Tugs Nos. 76, 80, 83 and 47.	
œ	Norfolk yarddodo	7		00 0000	
es	do	7	Barbar Na 6 dagard		
oit	ao	٥	Bouker No. 2 (loaned to city of Norfolk).		
k	do	7			
	do	7			
ta	Tug director	7 8			
ico	Norfolk yard	7	l		
orkshops, YR. d 17.	doTug directordodoNorfolk yard	None.			
.u. 17.				Bie & Schiott.	
i				Clio.	
VAL DISTRICT.					
40, 341, 349, 442, 456, 458, 35.	Charleston yard	None.			
9, 213, 335, 338 rge, YCD 7 rge, YO 38	Marines, Parris Island.	None.			
ge, YO 38	Charleston yard	NOINE.			
	Not yet arrived from fifth district.				
e, YW 9 rrick, YD 1	Marines, Parris Island.	None.			
os. 9 and 10	Charleston yard Navy yard	None.			
and launches,	Marines, Parris Island.	None.			
onlighter, YE	Ammunition depot	None.			
iters:	Navy yard				
	do				
No. 18	do	None. None.			
zs, Sebago	do	6			
	do	None.		Tugs, Nos. 46, 79.	
el, Clarinda	District	8			
AVAL DISTRICT.			Marija		
			}		
; 1,150,151,209 10,43,494,and				No. 232.	
10,43,494, and		None.			

List of district craft, showing location and personnel attached, Mar. 15, 1922—Contin

		,		
Craft.	In service.	Complement (enlisted men).	Out of commission.	On sale.
SEVENTH NAVAL DISTRICT—continued.				-
Seaplane barges, Nos. 20 and 59.		None.		
Stevedoring barge, No. 67. Floating derricks, Nos. 17		None. None.		
and 55. District tugs, Saco	Naval station, Key West.	9		
Water barge, YW 12 Freight lighter, YF 111 Pile driver, YPD 19	W Cat.	None.		
Pile driver, YPD 19 Patrol vessel, Zumbrota	District commandant.	None. 5		
EIGHTH NAVAL DISTRICT.				
Coal barges, Nos. 320, 325, 408.	New Orleans	None.	[
Stevedoring barges		None.		YS 69, 70, 7 and 78.
Water barge, Y W 28 Seaplane wrecking der- ricks, YSD 1 and 2.	Pensacola air station	None.		
ASP.	Captain yard	2		
District tugs				Adirondack.
Unclassified				Ahdeek and
ELEVENTH NAVAL DISTRICT.				Ahdeek and tella loans Culver Mi Academy.
Coal barges: Nos. 387 and 388	At Pichilinque	None.		Nos. 140 and
Nos. 220, 235, 244, 277, 297, 308, 309, 312, 360, 362, 365, 366, 367, 368, 387, 388, 392, 393, 231, 275, 281, 314, 316, 466, 469, 470. Fueling barges, YCD 1 and 2. Fuel oll barges:	San Diego	None.		Pichilinque
	do	None.		
YO 9. YO 30. YO 23.	dodo	9 11 12		
YO 24 Seaplane barges:	do	12		
YV 3	do San Diego	None. None.		
Water barges: YW 30 YW 47	do	None. None.		
Ash lighters: YA 42 and 46 YA 60	San DiegoFleet	None. None.		
Motor tugs: YT 86. YT 88.	San Diego	3		
Freight lighter, YF-54	Aviation, San Diego San Diego	None. None.		
Garbage lighter, YG-7 TWELFTH NAVAL DISTRICT.		None.		
	Training station	. 5		N
Ambulance boat, YH 1. Coal barges, Nos. 72, 131, 132, 152, 154, 166, 187, 188, 236, 239, 241, 243, 245, 246, 269, 283, 285, 307, 377, 378, 379, 390, 381, 382, 383, 384, 385, 396, 311.	Mare Island	None.		Nos. 73, 15 242.

'istrict craft, showing location and personnel attached, Mar. 15, 1922—Continued.

	,	Comple-		
Craft.	In service.	ment (enlisted men).	Out of commission.	On sale.
I NAVAL DIS-				
arges, YCD 4,		ł		
arges, YO 8	dodododododo	do		
ge, YW 16	do	do		
erricks, YD 27	do	do		
М 2	do	do		
s and launches.	Training station	6	Admirai Glass	
	Mare Island	5		
ion lighters,	Mare Island (fireboat). Ammunition depot	None.		
27, and 35. rs, YA 31, 32,		i		374.001.00
		l .		YA 23 and 39.
rs, Nos. 4, 6,	do	do		
s, YMD 8 and 9	do	do		
gs: lla	Mare Islanddodo	14		
	do	14 14		
ator naught	do		Ordered out of com- mission.	
tugs—	i .		}	
). 87	do	• • • • • • • • • • • • • • • • • • • •		•
). 95	ldo	5	I	
∖ ∩a	i do			
). 94	dodoTraining stationdododo	4		
nt	do	8		
sels	Mare Island			Vergana.
hter				YF 29.
TH NAVAL DISTRICT.				
000.	Puget Sound yard	None.		
		None.		1
derricks, YD	do	None.		
). .on lighters,	Ammunition depot	None.		
15, and 16. rs, YA 35 and		None.		
thters YG 6 thters, YF 45, 0, 51, 52, 87, 88,	dodo	None. None.		
pile driver,	Puget Sound yard	None.		
gs: cket	do do Torpedo station	9 8 2	Helori	
TH NAVAL DIS- RICT.				
s, YC 251, 252, 274, 294, 296, 406, 407, 427, 477, 641, 642.	Naval station, Pearl Harbor.	None.		

List of district craft, showing location and personnel attached, March 15, 1922-Contin

Craft.	In service.	Complement (enlisted men).	Out of commission.	On sale.
FOURTEENTH NAVAL DISTRICT—continued.		_		
Fuel-oil barge, YO 21 Water barges: YW 10 YW 15		6		
YW 10	Naval station	3		l
Floating derricks, YD 25,	do	None.		İ
53. Ammunition lighter, YE	Now being converted from coal barge.	None.		
36.	Naval station	None.	i	Ì
Ash lighters, YA 48, 49 Freight lighter, YF 153 Floating pile driver,	do	None.		i
I F D 10.	do	None.		
District tugs: Delaware (SP 467)	Submarines	s 10		l
Tug No. 49	Submarines	7		
Tug No. 50	do	7		1
Motor tug No. 90	do	3	·····	
Motor tug No. 90 Motor tug No. 93 Garbage lighter, YG 11 Torpedo testing barge, YTT 3.	do	None.		
Torpedo testing barge,	Submarines	4 28		
Unclassified Hermes	Aviation	None.		
FIFTEENTH NAVAL DISTRICT.				
Fuel-oil barges: • YO 11YO 32	Submarinesdo	17		
SIXTEENTH NAVAL DISTRICT.				
Coal barges, YC 145, 146, 147, 175, 177, 178, 180, 181, 182, 183, 185, 238. Water barge, YW 19 Floating derricks, YD 16, 10 47, 52	Naval station, Cavite	None.		
Water barge, YW 19 Floating derricks, YD 16,	do	10 None.		i -
19, 11, 50.	do	None.		
Čallao	do	23		
No. 681	do	6		
No. 683	do	10		
No. 684	do	10		
No. 685	do	10		
No. 685 No. 687 Ammunition lighters:	uv	• • • • • • • • • • • • • • • • • • • •		
YE 7	Naval magazine			
YE 8	Naval station, Cavite	10		
Freight lighters, YF 5, 6,	do			
No. 685. No. 687. Ammunition lighters: YE 7. YE 8. Ash lighters, YA 37, 52, 59 Freight lighters, YF 5, 6, 17, 24, 34, 35, 36, 38, 86, 162.				
17.		• • • • • • • • • • • • • • • • • • • •		
Mud scows, YMD 1, 2, 4, and 6. District tugs:		None.	i	
Wompatuck	District	39		
Banaag	Districtdodododo	. 8 5		
Christine	C. in C. tender	5 6		
Iona	Naval station	ě		
Motor tug No. 92		5 5		
	do	None.	!	
BII(1 4.	do	None.	'	
and 25.		2.02.0.		ľ

Charged against shore station submarines.
 Charged against shore station submarines.
 On temporary duty.

istrict craft, showing location and personnel attached, March 15, 1922—Continued. OUTSIDE DISTRICT ACTIVITIES.

	OUTSIDE DIST	RICT AC	TIVITIES.	
Craft.	In service.	Comple- ment (enlisted men).	Out of commission.	On sale.
DO STATION, ANDRIA, VA.				
es:		_		, .
i6 i7		1 1		
esting barge,		8 100		
ion lighter No.		8 13		
ssel, Herreshoff		* 13		
, Horrositon		110		
L ACADEMY, APOLIS, MD.			·	
arge, YO 17 rge, YW 21		None.		
rge, YW 21 ierrick, YD 51				
s and launches,				
de. ers, YA 16, 22,				
ghters, YF 10, 59, 172. ed:		•••••••		
t Center				
TATION, GUAM.				•
rge, YW 26 W 5				
ghters, YF 42,		••••••		
141, 144, 145, , 149, 150, 151,				
L STATION, NTANAMO. S, YC 24, 55, 66, , 113, 162, 163, , 201, 202, 203, , 206, 207, 233, , 492, 495, 496, , 493, 536.		None.		
	į	8		
rges: 3	<u>i</u>			
4		8 8		
υ		9		
	i contraction of the contraction	9		
ghters, YF 14, 183, and 184.				
barge, No. 48				
pîle driver,				
ig Barnett			Out commission	
наггі. e, YC 200	ļ <u>.</u>			
OVING GROUND, IEAD AND DAHL-	•			
M 7 and 8s and launches,	 	None. None.		Магу М.
chters: , 65, 66, 73, 133, 136.		None.	Indianhead	
7, 158, 175, 174		None.	Dahlgren	YF 170 and 173.
igs, Triton	•••••	12	do	Tugs 77 and 78.
	station under Rureau of	O=d=====	•	- 450 11 8114 101

d against shore station under Bureau of Ordnance.

List of district craft, showing location and personnel attached, March 15, 1922—Conting OUTSIDE DISTRICT ACTIVITIES—Continued.

Craft.	In service.	Comple- ment (enlisted men).	Out of commission.	On sale
SAN DOMINGO.				
Coal barge, YC 300 District tug, Potomac		• 41	 	
ATLANTIC FLEET.				
Seaplane barge No. 57				
NAVAL STATION, ST. THOMAS, VIRGIN ISLANDS.				
Water barge, YW 32 Freight lighters, YF 163, 164, 165, 166, 167, and 168.				
NAVAL STATION, SAMOA.	i			
District tug Fortune Floating derrick, No. 34		28		To be sold.
NAVY YARD, WASHING- TON, D. C.	! !			
Coal barges, Nos. 490, 457, 464, 302, and 487.		None.		
Fuel-oil barge, No. 37 Ferry boats and launches,		None. 24		
Porpoise. Car floats, YCF 1, 2, 3, 4,	ا ا	None.		
6, 7, 8, 9. District tugs				Uncas.
Catawba		14 21		
Tecumseh	Repairing	13	Out of commission	

[•] Charged on fleet operative plan.

Mr. Kelley. You have to do it that way anyhow in order to the total, and then it will clear the whole thing right up and it simplify matters if we include these men for the shore stations. will know, then, that we are not counting them twice.

REDUCTIONS IN BRANCHES OF SERVICE MADE BY NAVY.

Secretary Denby. We have estimated them, but on the basic 96,000 men, the number needed. Of course, if a heavy cut or some shore stations will be discontinued and so many barges not be needed.

Mr. Kelley. The cuts you have made are in the little craf Europe, South America, and Asia, and it probably would make——

Secretary Denby (interposing). You would scarcely call a cu 150 destroyers a little cut.

Mr. Kelley. But you had made that cut before you came to use Secretary Denby. The cuts we have made are very, very deep Mr. Kelley. I mean that the cuts you have made are in the smattypes that are remotely operated.

Secretary Denby. We have cut out a hospital ship, the Birmingm, the Chester-

Mr. Kelley (interposing). I doubt whether you should cut out a

expital ship.

Secretary Denby. We cut out a hospital ship; we cut five cruisers at; we have cut out a number of ships of military value, and we **∋ep** only those-

Mr. Kelley (interposing). What I mean is that what you have

ken out would not materially change this figure.

Captain WILLIAMS. It would not have any effect on it one way r the other.

Admiral Coontz. It would to this exent, that there would be a

umber of stations go out of commission.

Captain WILLIAMS. Unless the ships go out of commission it does ot affect it; they contain no personnel whatever; the 1,500 we are sking for are men to man objects that contain no personnel on them ntil we put them on. I think your difficulty is in the understanding f the word "vessel"; most of those are barges loaded with coal to we storage, and they are tied up to a dock with no men on them.

Mr. Kelley. There is about \$1,000,000 worth of personnel.

Captain Williams. I can give you the number of men that have een on them and you can estimate how much of that is a personnel

Mr. Kelley. Suppose you collaborate with Admiral Coontz in putng on the number of men who are on now and the number you want ext year, and then we will have the whoel thing.

ALLOCATION BY NAVY OF 50,000 MEN FOR SEA DUTY.

Secretary Denby. I would like to say further, in connection with our statement, that we made these cuts and furnished you this list nis morning in answer to a purely hypothetical question.

Mr. Kelley. Not so hypothetical.
Secretary Denby. It was hypothetical because you said, "commision certain ships and then see what you can do with the rest." We ollowed your directions, but this is not what the Navy Department rould do if it had more men. We would not distribute the personnel n this way, but we have distributed the personnel according to your pecific request. It was purely a hypothetical question, and in anwer to that hypothetical question we have given you this statement. and if the Congress gives us this number we will have to determine what to do with them.

Mr. Kelley. We would not undertake to operate the Navy; the

s a certainty.

Secretary Denby. But that does not mean that we would allocate he personnel as your hypothetical question appears to compel us, but re would allocate it-

Mr. Kelley (interposing). I do not think anybody has confused be Secretary, Admiral Coontz, or anybody else.

Secretary Denby. I do not want the Congress to understand that is is what we wish to do-that is, because we have filed a statement in response to a table that you asked us to make based upon ce hypothetical things. You said, man the battleships at full con ment, man the destroyers at full complement, man the submari complement, and then use the rest of the personnel as best you That was purely hypothetical. We did it, but that is not the the Navy Department, if given 50,000 men, will distribute the

Mr. Kelley. That is a matter for you entirely.

Secretary Denby. It was a hypothetical question only.

Mr. Kelley. What we wanted to do was to know what you do with 50,000 men if they were kept in commission and we naturally expect you to keep in commission that part of the which was of some value for the national defense.

colonel Roosevelt. Which, in your opinion, would, but not

opinion of the Navy.

Secretary Denby. You did not give us any option; you to man certain ships.

Mr. Kelley. There is no question about that.

Secretary Denby. Your question appears in the record and not attempt to repeat it, but I will answer that in a letter thi noon.

Admiral Coontz. You want us to take the list on page 326; opposite each one whether there is any personnel on board ar personnel is needed for next year. Is that correct?

Mr. Kelley. I would not say that, but I would like to kno the facts are about this \$5,000,000 expenditure charged up t districts. If those craft are affoat I would like to know how men are needed for those craft.

Admiral Coontz. I call on Supplies and Accounts to furr figures because they spent the money; I never knew about they brought it out in this table. A part comes from miscell a part comes from C. and R.; and a part comes from ever appropriation. I want them to specifically tell what that monfor, and in the meantime I will go down that list ship by sl show you whether there is anybody aboard and what is nee next year. I have what is aboard each one right now but I give vou complete data.

Mr. Kelley. Mr. Byrnes, have you any questions to ask?

Mr. Byrnes. As I understand, you started with a hypo question before you, in which the chairman laid down a proj for manning the battleships, destroyers, and submarines, and s with that premise you have distributed the balance of the you would distribute them if that were demanded of you, b contention is that if 50,000 men were allotted you would no them as you have set forth in this statement at all, but would tion them in a different manner entirely?

Secretary Denby. It would be within the province of the ment to do what it could and make the best use of the men but I did not want the statement to go to Congress that we c the battleships, destroyers, and submarines with that num 'HES OF SERVICE TO BE LEFT OUT BY SUGGESTED ALLOCATION OF 50,000 MEN.

Byrnes. Why do you believe that would be an insufficient er. as indicated by the chairman?

retary Denby. Because it would leave Americans all over the unprotected, to begin with; it would strike out the Yangtze ; it would strike out the special service squadron.

Byrnes. Why? Do you mean you would not have a sufficient er of men left after manning the vessels indicated by the

nan to keep these other ships in commission?

retary Denby. The vessels were indicated by the chairman, towith their auxiliaries; he said to put 18 battleships, 103 ders, and 84 submarines in full commission with the necessary s and other auxiliaries, and then see what you have left, and em as far as they will go, but when we had done that we had ng left for the special service squadron in South and Central ica; we have nothing left that would be of service in the tze patrol.

BYRNES. How many did you have left after manning the ships

ited by the chairman?

retary Denby. None whatever.

Byrnes. I have not been over the list carefully but I thought ad indicated personnel for some other ships than the battledestroyers, and submarines.

retary Denby. Oh, yes; but they can not operate without auxes: they have got to have certain auxiliaries in order to make ting fleet.

. Kelley. The auxiliaries were provided for?

retary Denby. No; we have cut the auxiliaries all to pieces.

CUT FROM LIST BECAUSE OF SUGGESTED ALLOCATION OF 50,000 MEN.

. Kelley. What have you cut?

retary Denby. We have cut the cargo ships, for instance. We been reading the list of what we took out. We have one repair for instance, of the utmost value, incalculable value, that is to e have cut one store ship of very great value; we have cut three , three cargo ships, and so on.

. Kelley. Let me ask you this question-

eretary Denby (interposing). We cut 27 submarines: we have ne Eagles; we have cut the number of subchasers, and we have ne number of gunboats.

Kelley. We know what you have cut.

Byrnes. Was the cutting of the personnel on those ships due

fact that you have increased the personnel on your battleships and above the complement now upon those ships? miral Coontz. No.

. Byrnes. In allocating the personnel, in response to the request chairman, have you increased the personnel upon the battleover and above the number of men now upon those battleships? retary Denry. Yes; we have; and we have done so because-

Mr. Kelley (interposing). In other words, you put 3.000 mo men on your battleships than you have now and that 3.000 world

more than take care of your Yangtze patrol?

Secretary Denby. We have followed the chairman's question ex actly without the slightest change. He gave us the number of battle ships and told us to put a full complement on them, and that is what we had to do.

Mr. Kelley. What you want to do, Mr. Secretary, is to reduce the number carried on some of these battleships and keep them

Yangtze patrols in.

LIMITED COMPLEMENT FOR SHIPS.

Secretary Denby, I do not think it is possible. I want to say right here that some of our ships to-day are sick ships.

Mr. Kelley. You say they are sick ships, with 1,100 men on

board?

Secretary Denby. Yes; I mean to say exactly that. You and I are not entirely in a position to controvert the naval men and set they are not telling the truth.

Mr. Kelley. I can summon naval officers who do not agree as to

your number of men necessary on the ships.

Secretary Denby. I do not think you can summon any competent captain or admiral of the United States Navy who will say that the battleships are overmanned with the figures we ask. I mentioned the other day, while I knew it was unintentional, that this hypothetical question would be referred to on the floor and would be held up as a trap and have the Navy Department saying that with 50,000 men we can man those ships and have a competent Navy.

Mr. Kelley. Mr. Secretary, the Navy Department wants to keep the fighting ships of the Navy in readiness for war, in case we should have war, and I asked you to put on paper the number of men it would take to keep those ships and their necessary auxiliaries in fighting condition, and according to your judgment it & something like three or four thousand more than you have on them now, and then you come in here this morning and say it is a trap.

Secretary Denny. Pardon me; I said the other day that quite un-

intentionally it might be used to confuse the House.

Mr. Kelley. How could it be considered as a trap?
Secretary Denby. By simply holding that up and saying. "This is what the Navy Department says it needs," but that is not what the Navy Department says it needs.

Mr. Kelley, I simply asked you, Mr. Secretary, to segregate all

you would never use for defense purposes.

Secretary Denby. I will read the question.

Mr. Kelley. I know what the question was, but I am saying it is different language; it is in the record once, and you need not put it in again. I am trying to get your mind clear as to what was in my

Secretary Denby. I have the question exactly, and all I want to get clear is the hypothetical question, which we have answered to the very best of our ability.

Colonel Rooseveer. If I understand what the chairman just said he said that he requested the Navy Department to furnish a list of

ships that it considered absolutely necessary for defense, with the Secretary Deney. No; that was not it.

Mr. Kelley. I told you I wanted to keep the 18 battleships in comission which I have seen in the newspapers are the treaty Navy; **nat** I wanted the 103 destroyers, which are the treaty destroyers: nat I wanted the 84 submarines which would properly be retained be the treaty submarines, and all the necessary tenders, oilers, tankers, all that would naturally go with those, and then this other stuff t the bottom of the list, like subchasers, eagles, and all that, could **ke** pot luck if there were any men left.

EALLOCATION OF 50,000 MEN UPON BASIS OF SHIPS ACTUALLY REQUIRED BY NAVY IRRESPECTIVE OF TYPE.

Admiral, we had to leave rather abruptly on account of the vote. rather think it would be helpful, after thinking it over, to the comaittee to have in addition to the statement which appears in the ecord in answer to the distribution of the men that I requested last reek, a distribution of 50,000 men for the ships of the Navy, using our own judgment entirely as to how they should be distributed.

Admiral Coontz. Fifty thousand men affoat?

Mr. Kelley. Yes, sir.

Admiral Coontz. All right; I will take that message to the Sec-

etary.

Mr. Kelley. I should like to have Mr. Reed clear up the naval disrict situation, about which there was some misunderstanding and ome difficulty before noon. I presume the better plan would be to ut out practically everything that has gone before.

4ETHOD OF ACCOUNTING NAVAL DISTRICT EXPENDITURES IN CONNECTION WITH DIS TRICT CRAFT.

Admiral Coontral I would prefer not, because I took the trouble to

and these 40 or 50 things that the money is spent for.

Mr. Reed. The statement submitted by Admiral Countz is correct, and all I want to submit in explanation is the reason in general which eads up to the assembly of charges in this way. We assign an acounting number to each ship on the naval list and to each shore naval activity, and wherever any payments are made those charges are shown and the charges against the particular ship or station are assembled in our annual report. For the naval districts there were ertain classes of expenditures covering certain floating equipment, parges and lighters, not ships, or yachts, or patrol activities of any sind, certain small activities on shore, and the expenses at district headquarters and various other miscellaneous places to which no speific numbers are assigned, and they were assembled as the expenses of the naval districts. At present those expenses are practically all or the greater part of them are expenses not in connection with the leet afloat.

Mr. Kelley. And the four million and some odd spent in 1921 inluded every expense for the naval district organization?

Mr. REED. That is correct.

Mr. Kelley. Is there any probability that some of these craft in

estimating the personnel might be counted twice?

Mr. Reed. Craft carried in this list of barges and lighters is not of such a nature that it could be found in the computation for personnel of the fleet.

Mr. Kelley. For the navy yards?

Mr. Reed. Yes, sir.

Mr. Kelley. Then, it is possible to put in the hearings a list of the craft assigned to the naval districts that are not assigned to the navy yards?

Admiral Coontz. Yes, sir.

Mr. Kelley. You will do that?

Admiral Coont. Yes, sir.

Mr. Kelley. With the number of men?

Admiral Coontz. I will be glad to. I will state further, as budget officer, I shall insist that for the expense hereafter these things shall be separately allocated.

Mr. Kelley. That is the way to do it. Admiral Coontz. I think we can do it.

Mr. Kelley. These small craft are really shore activity craft?

ALLOCATION AND USE OF DISTRICT CRAFT AT NAVAL STATIONS.

Admiral Coontz. The situation is this: At the big stations like New York, Norfolk and San Francisco we give these craft to the district commandant who in every case, except two or three, is the commandant of the yard. A navy yard gets so many, one if necessary, and so on. When it comes to a big station where we have quite a number and a number of calls we have found that the cheapest and most economical way was to have a sort of pool, so that the district commandant has them all right there. If, for instance, Iona Island, near New York, wants something done, he sends one up. If Fort Hamilton needs one he dishes one out. Hereafter if I want to know exactly how much for what we might call the district proper, which will be very slight, and how much for the tugs, barges, rifle targets, and the thirty-odd things, then, I think, it will be perfectly clear to the committee and distinctly better for us.

Mr. Kelley. At the navy yards the little boats are carried as a

part of the shore establishment!

Admiral Coontz. Yes, sir.

Mr. Kelly. If they might carry some water out to a ship, that is just a shore activity and carried as such?

Admiral Coontz. Yes, sir.

Mr. Kelley. Those men are many times civilians, perhaps mostly! Admiral Coontz. Very rarely now. Most of them are bluejacker and the number will be mentioned by Captain Williams when he comes to the shore establishments.

Captain Leutze. A tug at a navy yard or a water barge is listed as a ship of the navy, but it is shown under the proper name of the ship in Table 4 of Paymaster General's Report.

Mr. Kelley. We have now had furnished us by Admiral Coonts

a list of all the tugs that are to go with the fleet?

Captain Leutze. Yes. sir.

FUNCTIONS OF DISTRICT CRAFT.

Mr. Kelley. There will be same other tugs, of course, that are atsched to the navy yards?

Captain LEUTZE. Yes, sir; harbor work, as they call it.

Mr. Kelley. Where they serve the yard primarily and not the

Captain Leurze. They serve the yard and also the ships as they ome into the yards. For instance, in docking a ship, they may have o use as many as 14 tugs.

Admiral Coontz. It is primarly yard service; they stay there all

he time and do not go to sea.

Mr. Kelley. The tugs that we have already included in the list ire those that go around with the fleet to be used for towing purposes >r mine-sweeping purposes?

Admiral County. Yes, sir; they are the ones that move from place Dace. The others are nonseagoing tugs—they never go to sea ex-

rept in an emergency.

Mr. Kelley. Are the navy-yard tugs manned by civilians or by enlisted men?

Admiral Coontz. Enlisted men.

Mr. Kelley. You are certain about that?

Admiral Coontz. Absolutely.

Mr. Kelley. Is there anything else you would like to say about the Navy afloat?

Admiral Coontz. No. sir; nothing further.

DISTRIBUTION OF NAVAL PERSONNEL ON SHORE DUTY BASED ON COMPLE-MENT OF 15,000 FOR THIS PURPOSE.

Mr. Kelley. Have you a distribution of the Navy ashore? Captain Williams. I have a distribution in accordance with your request of the department on Friday to distribute 15,000 men as they could be distributed with 50,000 men affoat and 15,000 men ashore.

Mr. Kelley. What is the latest date as of which you have a dis-

tribution of the shore forces?

Captain WILLIAMS. As they actually existed?

Mr. Kelley. The last available date.

Captain Williams. The last complete distribution, January 1 of this year.

MEN ON SHORE DUTY JANUARY 1, 1922.

Mr. Kelley. Please give us the details of the distribution on Jan-

Captain Williams. District vessels. 3,429; receiving ships, 1,034; receiving barracks, 676; yards and stations, 2,099; training stations and trade schools, 2,500; hospitals, 1,637; prisons, 100; communications, 1.635; aviation, 2.100; ammunition depots, 602, and recruiting. 900.

Mr. Kelley. That makes a total of your shore establishments of

how many?

Captain WILLIAMS. The numbers I have given are the required numbers.

Mr. Kelley. Those are the numbers required? Captain Williams. The number of men required on January 1.

Mr. Kelley. Based on a total personnel of 106,000?

Captain WILLIAMS. Yes, sir.

ACTUAL NUMBER REQUIRED FOR SHORE DUTY.

Mr. Kelley. Can you give us the actual numbers corresponding with those who were in actual service on that date or on any date!

Please go right down through the list again.

Captain Williams. District vessels, 3,352; receiving ships, 1241: receiving barracks, 704; yards and stations, 1,208; training stations, 1,589; hospitals, 1,978; prisons, 23; communications, 1,228; aviation, 2,754, plus 52 under instruction; ammunition depots, 605, plus 20 under instruction at ammunition depots: and recruiting, 709.

MEN ON DUTY AT TRADE SCHOOLS AND TRAINING STATIONS.

Mr. Kelley. What about the trade schools?

Captain Williams. Instructors, 443, and 1,334 under instruction

Mr. Kelley. What about the 1,589 that you gave before?

Captain WILLIAMS. Those are the training stations, that is different.

Mr. Kelley. How many for the trade schools?

Captain Williams. Four hundred and forty-three instructions and 1.334 under instruction. On January 1 we had 1.589 operating force at training stations and 3,976 under instruction. We had in addtion to that, trade schools in which we had 443 instructors and 1334 under instruction.

Mr. Byrnes. You did not give the figure of 3,976; what is that for! Captain Williams. Apprentice seamen under instruction at training stations as distinguished from men under instruction at trade

Mr. Byrnes. What about the 3,976?

Captain WILLIAMS. They will have to come out if we have a 50,000man navv.

Mr. Kelley. I want to get the number of men you actually had in these various activities as of some certain definite date.

Mr. Byrnes. What are the 1.589 that you mentioned?

Captain Williams. The operating force at the training stations.

Mr. Byrnes, And the 443?

Captain Williams. The operating force at the trade schools.

Mr. Byrnes, And the 1,334?

Captain Williams. They are under instruction at the trade schools Mr. Byrnes. They should not be in this list?

Captain WILLIAMS, Yes, sir.

Mr. Byrnes. They should be in the list under training stations?

Captain Williams, No, sir; that is a different figure.

Colonel Roosevelt. The trade schools and apprentice seamen at all different people entirely. They overlap, but are not the sam personnel.

NUMBER OF MEN IN TRAINING AND THEIR DESIGNATION.

FILEY. Please give the number in training. in WILLIAMS. There are several forms, the trade schools, e have machinists and other mechanics. Those are reprey this figure of 1,334. There are training stations where we n for other activities and those are represented by the figure

ILLEY. What about the 220 men under ammunition depots? in WILLIAMS. They are certain men specially instructed in s and mines and ordnance who are carried under this sub-ammunition depots.

ary Denby. Are they men under instruction?

in WILLIAMS. Under instruction; they are men learning the sm of the mines and other ordnance gear.

ELLEY. You have 1.589 that are the operating force of the stations, is that right?

in Williams. 1,589.

LELLEY. You have 443 that are the operating force of the nools?

in Williams. Right.

ELLEY. Those two together will represent the number of men as instructors and the operating force?

in WILLIAMS. Yes, sir.

ELLEY. That makes 2,032?

in Williams. Yes, sir.

ELLEY. And the hospitals, how many?

in Williams, 1,978.

ELLEY. That is the operating force in the hospitals?

n Williams. Yes, sir.

ELLEY. Are there 2.754 in the operating force of aviation?

in Williams. Yes, sir.

ELLEY. Take out the 52 there and the 220 out of ammunition Those are the number of students there and the number of that you had in the trade schools that you gave a while ago. In WILLIAMS. 1,334.

ELLEY. That makes 1,606 under training that are not apprenien.

in WILLIAMS. There is another item carried as miscellaneous, the we have 107 men. That includes War College, Naval Depot, activities in Europe and China, naval attachés, comons, etc. The total is 15,985.

ELLEY. Following this classification here, 15,985 is the numvou had on January 1, 1922?

in Williams. Yes, sir.

ELLEY. For this particular service?

n Williams. Yes, sir.

ATION OF MEN REQUIRED ON SHORE DUTY, BASED UPON NAVY OF 65,000 MEN.

ELLEY. Now, have you made a calculation as to the number lld be required on the basis of 50,000 men afloat? n Williams. On the basis of 50,000 men afloat and 15,000 hore.

Mr. Kelley. Let us have that under the same items, begin with district vessels.

Captain WILLIAMS. For district vessels, 1,500.

Mr. Kelley. For receiving ships?

Captain WILLIAMS. Receiving ships and barracks, 750.

Mr. Kelley. For receiving barracks?

Captain WILLIAMS. I have bunched them together and have for both.

Mr. Kelley. Training stations and training schools?

Captain WILLIAMS. For training stations I have 280, and for thing schools, 500; or 780 altogether.

Mr. Kelley. Navy yards and stations?

Captain WILLIAMS. 1,100. Mr. KELLEY. Hospitals?

Captain WILLIAMS. 1,645.

Mr. Kelley. Prisons? Captain Williams. 25.

Mr. Kelley. Communications?

Captain WILLIAMS, 1,305.

Mr. Kelley. For aviation?

Captain WILLIAMS. 1.070.

Mr. Kelley. That does not include any under training? Captain Williams. No, sir.

Mr. Kelley. Ammunition depots?

Captain WILLIAMS, 425.

Mr. Kelley. For recruiting?

Captain WILLIAMS, 250.

Mr. Kelley. For miscellaneous?

Captain Williams. I have not put miscellaneous down.

Mr. Kelley. It is probably about the same as the other, and carried 170 in the other.

Captain WILLAMS. We will call it zero, because it is included to others.

Mr. Kelley. What will that foot up?

Captain Williams. 10.450. For replacements, 7 per cent of 6 men, or 4,550.

Mr. Kelley. You have not put down tenders yet, but they a cluded in the 10.450?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. How much were they?

Captain Williams. 1,600. I am not certain that you got t placements on the 1st of January.

Mr. Kelley. How many replacements were there on Janua

Captain Williams. 7.833 plus 4.062 in transit.

Mr. Kelley. That was based on a personnel of how many n January 1?

Captain Williams. On a personnel of 100.999.

Mr. Kelley. Did that include apprentice seamen? Captain Williams. Yes, sir; that includes everybody.

Mr. Kelley. What would that be—about 7 per cent? Captain Williams. Yes, sir: 7 per cent plus men in transit.

Mr. Byrnes. I want to know whether in the last list of figur gave you included any men under training?

Captain Williams. None whatever, except the 500 at trade schools. Mr. Byrnes. Are they under instruction or are they operators of e trade schools?

Captain Williams. I put down 500 at the trade schools, because e found out we could allot about 500. We will probably use some or instruction and some would be receiving instruction, the total umber being 500.

Secretary Denby. You have not duplicated that anywhere?

Captain WILLIAMS. No, sir.

METHOD OF COMPUTING 7 PER CENT REPLACEMENTS.

Mr. Byrnes. I want to know what you include in replacements

Captain WILLIAMS. There are several ways of getting at it.

Mr. Byrnes. Take the shortest.

Captain WILLIAMS. It is a personnel study. Mr. Byrnes. How do you arrive at the 4,550?

Captain WILLIAMS. I got the 4,550 by taking 7 per cent of the 000 allowed. The 4,550 is simply an estimate.

Mr. Kelley. The 7 per cent is not an estimate, but it is based on

Our experience of this year, is it not?

Captain WILLIAMS. It is based partially on experience. The 7 per ent is not a fixed percentage, but it varies with the change in the umber of the personnel. Every time the number of the personel is changed the replacement varies from the normal 7 per cent. Is an illustration, if you have 100,000 men for this year and on uly 1 you change it to 50,000 men, you are still compelled to carry 1 your hospitals, prisons, etc., a large personnel for the ensuing ear. The persons sick or in prison belong to the 100,000 personel. If you ask how many men there are in the Navy, you must parcularly specify at what time, because otherwise you will create misunderstanding. Suppose we say we have 100,000 men in the avy, or you ask how many men there are in the Navy; you must ecify the hour and the day that you desire that information, beuse otherwise it changes by quite an appreciable percentage. If u want that information in that form, you can only get it two or ree months later. The next proposition is to take the reports that u receive from all over the world, from the Yangtse River to the ack Sea, and put them together; and a very appreciable percente of them will be late in the mail.

Therefore, your estimate to-day of the number of men we have in Navy is based or constructed in two ways: One would be to take absolute census by radio, say, as of January 1, of this year, taking ery report that comes in of deaths, desertions, etc., and applying at to the census. You will find, of course, that there is a difference those figures, and that difference is very much larger than you ould believe. I have a list here of a large group of replacements nich, perhaps, might explain the meaning of that word. I have re 11,895 men who might be called replacements. Of that numr, so far as we could go into the minute details, 1.642 were on reving ships. Now, a man's cruise is up day after to-morrow, and ship sails to-day, and there are two man-days that you have got look out for, or one man for two days. You can not transfer him to another ship, but you must get rid of him. We had in hospital 2,258, and of prisoners we had 1,339. We had delayed reports of men in transit, which are difficult to separate at the moment, amounting to 4,062. We have been accustomed from time to time to call, the sum of these things a percentage, and 7 per cent is the best estimate we could arrive at. We expect that instead of 7 per cent, it will probably go up to 10 per cent for this reason, that when a large number of men enlist in any one year for four years, at the end of four years, a large number of men will be discharged.

These men will from time to time pass through the different stages, receiving ship, discharge, leave, etc., which will increase that factor of safety due to the unaccountable errors in numbering personnel. We calculate that the percentage of replacements may vary from 7 per cent to as high as 11 per cent, but at the moment we have put

it at 7 per cent.

DIFFICULTY OF OBTAINING ACCURATE REPLACEMENTS.

Mr. Kelley. How do you fix the maximum at 11 per cent. or

upon what do you base that!

Captain Williams. We have had that experience from time to time. These figures are not always capable of abstract mathematical proof. Suppose the report of enlistments on the Pacific coast is lost in the mails. We get it eventually, but, in the meantime, we must carry an error, and a part of that error comes into this item of replacements. In other words, it is impossible with human material as large as this and scattered all over the world to say that on any given date we will have a given number of men actually engaged in a given duty. There are men being discharged, there are men traveling, there are men on one set of books, and there are men on another set of books; there are men dying suddenly, there are men lost, and there are desertions. It is those things that make this percentage, which we call a factor of safety.

Mr. Kelley. Do you figure that you want replacements for the

trade schools and training schools?

Captain Williams. I do not think that figuring on details of this sort would be very profitable. I think that the figure as to replace ments is one which must be applied to the total enlisted personnel of the service. Whether it comes from trade schools, from hospitals from ships, or from what source, it is a calculation which I do not think would be sufficiently accurate to be of much value. In our final records, in our final census, and in our final application of this personnel we always find this state of affairs. I do not want to bother you with a statement of the efforts that we have made to find out this 7 per cent, but it requires counting and recounting, checking and rechecking, and it is always about that size. If you had a cable census of every man in the Navy at noon to-day, those reports probably would not get here for two days.

FFFECT OF REPLACEMENTS.

Mr. Kelley. What you are saying is this, that if you had 100,000 men in the Navy, all told, 7 per cent of them would not be available for duty at any particular time; that some of them would be trans-

arring from one ship to another. Some of them would be waiting or a receiving ship, to go on board; some would be awaiting a reeiving ship to be discharged; some would be sick; some would be a prison, etc., and therefore there would be 7 per cent of the men hat would not be working at any particular job for the Government Il the time.

Captain WILLIAMS. That is practically correct. I think it would • more accurate to say that there would not be that full number on ompleted details. None of those men would be working for the Dovernment. A man passing through a receiving ship, for example, night be working for the Government; a man carried among the prisoners might be working for the Government on that day, and a carried in the hospital might be doing work for the Governnent. But that is the wastage, and I think experience has shown hat that is the best way to carry it in order to keep our details or nathematics correct.

Mr. Kelley. Then, with 65,000 men, you would need 7 per cent of

hat number for replacements?

Captain WILLIAMS. I do not think 7 per cent would cover it, but put it down as 7 per cent. The reason I say that is because in the iscal year to which this number refers we will have, we will say, 10,000 discharges, and 20,000 of those men will reenlist. That means 10,000 men that must be handled in one way or another from here to here and back again.

Mr. Kelley. Of course, you have that element in this year's fig-

ires and in last year's figures?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Your experience of last year shows that was not the ase.

Captain WILLIAMS. No, sir.

NUMBER OF MEN DISCHARGED AND REENLISTED LAST YEAR.

Mr. Kelley, How many did you discharge and take back last

Captain Williams. Last year was a very peculiar year.

Mr. Kelley. I remember there were 43,000 men going out, and

ou expected to get back a large number of them.

Captain Williams. We started with 120,000, and gave discharges evond that. That made it impossible to tell how normal conditions vere. We had to say to those men, "You can have your discharge then you want it."

Mr. Kelley. I remember very well that you made the argument ast year that the number to be discharged because of their two-year nlistments would be tremendously great, and that the element of oubt as to how many you would get back made it so uncertain that t was a very serious problem for you.

Captain Williams. The argument was subsequent to the decision,

nd the decision was based upon the number of discharges.

Mr. Kelley. You remember that you asked for a tremendous numer of apprentice seamen last year, or for twelve or fifteen thousand, ut you never had any such number this year, did you?

Captain Williams. That was my decision as to how many v should have.

Mr. Kelley. You guessed mighty bad last year.

EFFECT OF SICK UPON REPLACEMENTS.

Referring to this element of replacements, how serious would be if a ship that had 100 men on her lost seven of them?

Captain WILLIAMS. That is not the way it would work.

Mr. Kelley. No; because it would not work as badly as that. Captain Williams. It would not be in any sense proportionate.

Mr. Kelley. It would not be as many as that. Captain WILLIAMS. It might be many times that.

Mr. Kelley. How do you make that out?

Captain WILLIAMS. The replacements include the sick.

Mr. Kelley. The number of sick in hospitals is a negligible numb almost compared with the total number. The entire sick would I only 2 per cent, and you carry the boys around on the ship until the need to be taken ashore. They are pretty sick before you take the to a hospital. If he jams a finger, you take care of him on shipbon until he gets well, but if it comes down to some disease in which we want to put them in a hospital you take them off the ships, and the you have replacements to fill in there.

Captain WILLIAMS. The proportion in any station will be total

different from the personnel of the whole.

Mr. Kelley. The fact is, with these ships sailing about and wi their duties covering quite a wide area, if a man gets sick you wou not think of replacing him, would you?

Captain Williams. It depends on how sick he was and how lo

he was sick.

Mr. Kelley. If he gets sick for a few days you would not thi of replacing him!

Captain Williams But suppose he gets sick for two years: th

there is a replacement necessary, is there not?

Mr. Kelley. Yes; but, as I say, the number sick for any leng of time is so small that you probably would not bother filling up t places.

Captain Williams. It is not negligible.

Mr. Kelley. You have commanded a battleship in your time, he you not?

Captain Williams, Yes, sir.

Mr. Kelley. What ship did you command last?

Captain WILLIAMS. The Kansas.

Mr. Kelley. How many men were on the Kansas?

Captain Williams. We had 100 at one time.

Mr. Kelley. I mean when she was in full commission.

Captain Williams. One thousand one hundred.

Mr. Kelley, How many men would represent the sick on t ship at any time?

Captain Williams. According to these figures, let us say 25. Mr. Kelley. Suppose you had to get along on the Kansas 25 r short of your 1,100; you would never know the difference un somebody put the papers in front of you, would you?

Captain WILLIAMS. But if I had to stay 25 short of the comple-

ent for a year I would certainly notice it.

Mr. Kelley. But, as a matter of fact, you wait until you get into prt, you take the thing easy, and if the Secretary wishes to discharge few men, you do not count 25 men when you have a complement of 100?

Colonel ROOSEVELT. But is it not true that if you do not take care I the 7 per cent you automatically reduce the complement 7 per cent 1 the way through?

Mr. Kelley. That is what I am saying.

Colonel ROOSEVELT. And if the Navy says that it has a minimum implement that it ought to be operated with, it certainly has not

ken into consideration reducing an additional 7 per cent.

Mr. Kelley. I understand perfectly well that if Admiral Coontz, ho is a good officer and wants everything right up to shipshape, is apposed to have 1,200 men on shipboard he does not want 1,175, ut what I am saying is that if he had 1,175, unless somebody told im, he would never notice that condition.

Captain WILLIAMS. Why 1,175 when we are talking about 1,130? Mr. Kelley. I think that is true, that there would be, between be judgment of you and some other captain that I could easily pick ut. more difference than 25 as to how many you need.

Captain WILLIAMS. I certainly hope there would be.

Mr. Kelley. When I first came here that was a conundrum to be but now it is a commendation, to find officers who do not agree; bey do not agree any more than lawyers, doctors or anybody else.

Admiral COONTZ. If it is not one set of them sick it is another, not that is what runs along all the time; somebody is sick all the ime, but it is not always a case of those fellows getting well and omebody else getting sick.

Mr. Kelley. But when they get well they come back. Captain Williams. Suppose they do not get well?

Mr. Kelley. They are not all sick on one ship at one time.

Secretary Denby. It is something like the turnover in a factory. Mr. Kelley. Except that no business in the world has a lot of men

ying around waiting for somebody to get sick.

Secretary Denry. No; but every business man can pick up all the sen he needs in normal times to make his replacements. If you ask ny factory, where they have quite a number of men employed, how sany men they have out of active business and whose places they are to fill, you will find it far exceeds this.

Mr. Kelley. Captain, you are a good office man as well as a good

illor?

Captain WILLIAMS. No.

Mr. Kelley. You have an office down here?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Are you carrying 7 per cent or 10 per cent excess in our office force for the purposes of replacement?

Secretary Denby. We are carrying them in the great Navy.

Mr. Kelley. No; you have hundreds of men in the offices here to certain jobs, and I want to know whether you are carrying enough that you can fill the place of everybody who gets sick or goes away or a few days—do you do that?

Captain Williams. Those men are grouped in one building.

Mr. Kelley. Do you do it!

Captain WILLIAMS. No: those men are grouped in one building while the men I speak of are grouped from the reaches of the Yangt River to the Black Sea, and that is the difference.

Mr. Kelley. It is all nonsense, Captain, for you to try to make: believe that you put a man on shipboard every time anybody go

sick.

Captain Williams. No; but we put him on the quota-

Mr. Kelley (interposing). You do not do anything of the sort. Captain WILLIAMS. We put him on the quota, and you will fin that the personnel laws of Congress for the last hundred years have

taken this very figure into account.

Secretary Denby. I would like to make one statement in regard! replacements. You are talking about the offices here in the depar ment. Of course those replacements are made whenever they a

necessary through the civil service.

Mr. Kelley. Well, Mr. Secretary, you do not get my idea. Yo have a certain number of clerks in your department, and a certain percentage of them do not show up every day right along, and we leave those places empty for that day, that is all; you do not have another reservoir out of which you can get clerks; you go that muc short, and you get along just as well, and you could go another ! per cent short and get along just as well.

Colonel Roosevelt. No: you come to a breaking point there, an also, you take the situation on board ship; we are counting on goir short a certain number anyhow; that is what we are counting on ar

that has already been taken into our calculations.

Mr. Kelley. You can trust Admiral Coontz and these men who duty it is to have every man they need in any kind of an emergen to have the quota high enough so that you can stand, in time of peace a little shortage of men getting sick now and then.

Colonel Roosevert. Originally they might have had it in that shar but remember we have been hammering down that quota, and we have been working on it to skin it right down, and it is all in consonan

with the Secretary's idea to cut down.

Admiral Coontz. Take the battleships, where we reduce 5 per ce or more right along, take the destroyers with 10 per cent, and add th 7 per cent on, and see where you are getting. The first thing ye

know you will get 1 man in 6.

Mr. Kelley. We want the Navy to have enough men to man t fleet; there is no dispute between us on that. I have been hearing about this replacement thing every year for a long time, and t longer it goes the less it impresses me, although I know perfect well what it is for.

Captain Williams. It is inherent to deal with human nature at

human beings as distinguished from inanimate objects.

Mr. Kelley. I do not think the Military Establishment in time peace is so different from every other kind of establishment th you can have a reservoir of men out of which you can draw to ! vacancies that occur from day to day by reason of temporary absen-

Captain Williams. It is not temporary absence,

Colonel Roosevert. But it depends on where you keep your esti lishment; in other words, if I have 100 clerks to do the iob necessa

here, I count on having a certain number sick and I have 103, or hatever it may be, so that I can keep the positions running at the me time. I do not have 97 as the figure which enters into my callation if I am a good business man.

Mr. Kelley. No; if you are a good business man you do not have

n excess of clerks.

Colonel Roosevelt. No; not an excess; and I am not saying we have n excess.

Mr. Kelley. If you are operating a business for the Government hen I will admit that you do carry an excess of everything.

Colonel Roosevelt. No; not in the Navy Department.

SUBMARINE TENDERS.

Mr. Kelley. This is all there is to this except the recruiting and he training school end of it?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. And we had better take those up in detail when we each those in the bill.
Captain WILLIAMS. Yes, sir.

Mr. Kelley. Because there is no use of going over it twice.

Captain WILLIAMS. You had the shore-base tenders, 1,600 to start vith.

Mr. Kelley. I wonder whether the Secretary has any recommendaion to make about those shore-base submarine tenders to-day?

Secretary Denby. Yes; we have discussed those shore-base submaine tenders very fully; we had a total of 2,009 and we cut out 400.

Mr. Kelley. Making a total of about \$1,600?

Secretary DENBY. Yes, sir.

Mr. Kelley. Three thousand four hundred and eighty-two people o take care of boats that will require only 2,590 to operate them, when Admiral Robinson says that the orders are in the department hat they should be operated only 20 per cent of the time. Is that ight?

Admiral Coontz. That is not correct.

Mr. Kelley. When you have plenty of money that does not hold? Admiral Coontz. Captain Day says that does not hold for the ubmarines.

Mr. Kelley. That is what Admiral Robinson said about the sub-

narines the other day.

Admiral Coontz. I think Admiral Robinson was talking about omething else.

The CHAIRMAN. What happens to the submarine tender in time

f war; where do the submarines get their supplies?

Captain Day. The submarine tender goes to some safe anchorage nd acts as the advance base from which the submarines can operate. n the late war we sent one to an Irish port and one went to the zores and the submarines operated from there.

SUBMARINE PERSONNEL.

Mr. Kelley. The only thing that I had in mind was this, that ith the testimony here to the effect, generally speaking, that the ibmarine business is so difficult and hard on the men that you find it inexpedient to keep them out much more than one-fifth of the time; why could not the crews with the greater complement of skilled men we have during the other four-fifths of the time, take care of the submarines?

Captain Day. They do not stay in four-fifths of the time. Mr. Kelley. Why can not you keep them in?

Captain Day. We can keep them in all the time if necessary.

Mr. Kelley. If you do not need them in time of war, why need them in time of peace?

Captain Day. The crews of the submarines do a large portion of

their own repairs.

Mr. Kelley. How can you say that when you have 3.482 extra men, almost? You have 1333 per cent of the men operating the craft.

Captain Day. Going to the foreign service again, that is 66% per

cent better than they did.

Colonel Roosevelt. Just a parallel. The same sort of a situation arose as to the aircraft. The number of people you have flying is disproportionate to the number of people on the ground. It comes under the same category.

Mr. Kelley. It would be more like an automobile?

Colonel Roosevelt. What I mean is that it is more in that category; its explanation is along the same line.

OPERATION OF SUBMARINES AND CREWS TO KEEP UP EFFICIENCY,

Mr. French. The other day it was brought out that the submarine was a type of craft that needed to be used very largely in order to keep fit at all, that it would deteriorate much more readily if it were not used than if used. I was wondering what your experience has shown as being the amount of use that would attain the perfect machine without waste of use, using it too much?

Captain Day. That is a very difficult question to answer. It differs with each submarine as it does with each automobile. Some machines require going into the garage three times a month and some do not go in for two years. Roughly, a submarine should be operated once

a week in order to keep the machinery in condition.

Mr. French. How long should it be operated, what particular

time?

Captain Day. That depends on the circumstances surrounding the case. Say, from 2 hours to 12 hours.

Secretary Denby. That is for the machine. The man has to be

trained as well, and trained in a great variety of evolutions.

Mr. French. Of course, their training is going on with the handling of the machine?

Captain DAY. Not in this mechanical condition, not training the

crew.

Mr. French. What is your idea, to run the submarines the minimum amount of time so as to attain the maximum efficiency on the

part of both the crew and the machine?

Captain Day. No. sir. The training of the crew is quite a different matter. They are getting all the training they can get. For instance, last summer they were running five days a week for four months in succession and they became very efficient both mechanically and in the skill of their crew.

PERSONNEL OF DISTRICT CRAFT.

Mr. Kelley. How did you arrive at the number on the district There is quite an item of 1,500 men that are independent f the navy yards and stations.

Captain Williams. Of course, all of these figures are very tentative.

We first took the 1,500 and then the navy yards and stations-

Mr. Kelley (interposing). Just stick to the naval vessels.

Captain WILLIAMS. We simply used a fair proportion of the 15,000 **the ratio of the number required up to 100,000.**

Mr. Kelley. Just a good fair estimate? Captain WILLIAMS. A fair estimate.

Mr. Kelley. Based on experience?

Captain WILLIAMS. Based on experience; that is about it.

Mr. Kelley. All the districts are operated by the navy yard commandants except one or two?

Captain WILLIAMS. Yes, sir.

Admiral Coontz. Two.

Mr. Kelley. So that outside of those two districts we would not need to carry this as a special item?

Captain WILLIAMS. I prefer to take it up in this way.

SECREGATION OF DISTRICT CRAFT BETWEEN NAVAL YARDS AND NAVAL DISTRICTS.

Mr. Kelley. Let us see what we are getting at. In those cases where the commandant of the yard is the commandant of the station Fou do not make any attempt to separate the vessels that belong to : he district and those that belong to the yard?

Captain WILLIAMS. I think the misunderstanding in the whole thing comes from the word "vessels." Most of these things are not

ressels, they are craft.

Mr. Kelley. They are tugs, barges, and lighters. If the commandant of the yard is also the commandant of the district, then you To not attempt to segregate and attach some of them to the district office and some to the vard office?

Colonel Roosevelt. Yes; we do.

Mr. Kelley. How could you do that?

Admiral Coonty. The commandant of the district is also the commandant of the yard in the case of the third naval district. Under that comes the navy yard, Fort LaFavette, Iona Island, the supply base. New London, Conn., and all the various activities that are in that geographical area. He is the man who assigns the barges and he sends the oil lighters and everything. If we stopped the man In San Francisco or at Hampton Roads it would make no difference whatever. It might make a difference of maybe 20 men. Take San Francisco with Mare Island 30 miles away and with another of the places 200 or 300 miles away, he handles everything there. At Hampton Roads, having the great base there, as well as the navy yard 12 miles away, the ammunition depot, air station, the submarine base, and everything there, this man is the head of the whole job. I do not he sitate to tell you that when I want to make a cut I do not send to the navy yard, I send to Admiral Rodman and he looks over the whole situation; he has personal information, and he writes me to cut out here or there or elsewhere. The same in the two districts where I have commandants. It is just like when we decided to make a cut of 10 per cent, I sent to the commandant of the whole district and he wrote back to me and said cut out here and here.

Mr. Kelley. Admiral Rodman is stationed at Hampton Roads!

Admiral Coontz. Yes, sir.

Mr. Kelley. He has charge of all this kind of craft that belong to the Government on the Atlantic coast between certain points!

Admiral Coonty. Yes, sir; the craft under the Navy Department

Mr. Kelley. Including the vard at Norfolk?

Admiral Coontz. Yes, sir.

Mr. Kelley. The 1.500 men you are asking for here, a portion of them are to be assigned to those craft?

Admiral Coontz. Yes, sir.

Mr. Kelley. And if Norfolk wants one of those tugs or launcher or whatever it may be, Admiral Rodman sends one down there with the men aboard?

Admiral Coonty. Admiral Rodman assigns them.

Mr. Kelley. And he furnishes the men?

Admiral Coontz. Yes, sir.

Mr. Kelley. So that yard itself would not have to put any men on the craft?

Admiral Coontz. The situation would be this: He assigns a tug to the navy yard and it may stay there nine months.

Mr. Kelley. Who supplies the men? Do the 1,500 men man all the necessary craft under his jurisdiction?

Admiral Coontz. Yes, sir.

Mr. Kelley. There is nothing of a similar character in any navy

vard in his district?

Admiral Coonty. That is correct. When he sends the tug to the navy yard he puts the men on it.

METHOD OF COMPUTING PERSONNEL FOR DISTRICT CRAFT.

Mr. Kelley. Have you included in this list for the navy yards and stations anything for lighters or barges that Admiral Rodman has charge of?

Captain WILLIAMS. We are making an estimate for 1,500 on district

vessels.

Mr. Kelley. I am talking of the principle.

Captain Williams. I know. I want to show you how we got this. The 1,500 is marked here for district vessels. When you come to the navy yards and stations this 1,100——

Mr. Kelley (interposing). What I am getting at is this: If Admiral Rodman sends the necessary barges, coal barges and other craft of that kind, down to the yard whenever they want them with the

Captain Williams (interposing). That is a different proposition. Mr. Kelley. I thought that Admiral Coontz said that all of these lighters and barges and small tugs that would be operated around the navy yards were under the control of the commandant of the naval district. They used to be under the control of the navy yards, but in order to economize he centered the handling of those in the

Captain Pinney. We have a great deal of proving work that will nave to continue. It will have to go on for some time.

Mr. Kelley. You will have to use the men just the same?

Captain Pinney. We will have to use that many down at the proving ground constantly.

Mr. Kelley. What for?

Captain PINNEY. For the transportation of material and supplies.

Mr. Kelley. To what place?

Captain PINNEY. To the proving ground. Mr. Kelley. Do you mean new guns?

Captain PINNEY. I mean guns that must be proved in connection

with the program that is to be continued.

Mr. Kelley. If you needed only 200 for all of this great program, you would not need 200 simply to finish up the guns for the 10 scout cruisers.

Captain PINNEY. Those activities should be continued.

Mr. Kelley. They will be continued if we do not discontinue them, but we want to know whether there is any necessity for it. If you discontinue the activity, why keep the men?

Secretary Denby. You must refine guns and replace guns.

Mr. Kelley. But not soon.

Secretary Denby. We have to have target practice.

Mr. Kelley. You may have to have the old establishment kept up, and you have the old establishment just as you have had it for years.

were arranging for that, but now you are arranging for a tly expanded establishment. Do you know how many of these there were in Washington at any particular date?

aptain PINNEY. No, sir.

cretary Denby. I want to say that this matter of the Wash-n Yard complement needed for this purpose is under constant ny and will be reduced from time to time when it is possible ce it.

ILLEY. Have you any enlisted men now in the department? In WILLIAMS. Yes, sir; we have. May I tell you why?

LLEY. Yes.

Williams. It is because in 1919 we started to require these r these exact figures. We had to look out for the replacehad to give clear specific details in regard to marines, a pretty large job. We started the statistical branch ose of getting those figures right. We had no sooner hat when they cut our clerical force in the Bureau of per cent, without warning. We lost our statistical tatistical branch went overboard. We would not order hen; we refused to order a single one of them; the d not sanction it, and we did not believe in it.

along somehow, and, perhaps, we are stumbling now, the question of estimating what appropriation or transportation and recruiting for that year. sary to find out how many men would be disclerks from everybody, until they were askinally we got a few enlisted men to help us of transportation and recruiting. We made tation and recruiting, and it has turned

Mr. Kelley. I should like to get an estimate of the number the they would need.

Captain WILLIAMS. Eighty of them at Cavite.

Mr. Kelley. That is too far away. Take the navy yard at Phile delphia; how many men have you there?

Captain WILLIAMS. We have cut Philadelphia out. Mr. Kelley. How many at the Norfolk Navy Yard?

Captain WILLIAMS. Sixty-seven.

Mr. Kelley. What will they use the 67 for? Colonel Roosevelt. The commissary store. Captain Williams. The commissary store proposition and acti ties of that sort.

Mr. Kelley. That is not a large number, only 56 for a big stat like that. Where are the most of the 1,100?

Captain WILLIAMS. The largest one we have is Guam, where have 50 insular and 50 regulars.

Mr. Kelley. That is all right; it is a good ways away. W

Captain WILLIAMS. St. Thomas, 15; Pearl Harbor, 60; New leans, 18; Key West, 15; Guantanamo, 56.
Mr. Kelley. How many marines have you at Guantanamo?

Captain WILLIAMS. I do not know. I do not keep track of that want to call your attention to the fact that this does not include of the hospital force. I will explain that later. These are all out of the hospital force: 67 at Norfolk, 32 at Portsmouth, 200 at napolis, 229 at Washington.

DUTIES OF DISTRICT CRAFT ENLISTED MEN AT WASHINGTON, D. C.

Mr. Kelley. What are 229 enlisted men doing in Washington Captain WILLIAMS. The 229 men in Washington are running craft that do not belong in any naval district. They represent district craft in this peculiar situation in Washington.

Mr. Kelley. Do the 200 include those on the Mayflower? Captain WILLIAMS. No. sir. They are on stations like Indian Dahlgren and things of that sort.

Mr. Kelley. Are the 200 men on boats?

Captain WILLIAMS. No: not all of them. Washington is an nance yard, and doubtless some of the men are down there. 1 not prepared to specify that.

Mr. Kelley. I did not think it was the policy of the Depart

to have enlisted men in the shops.

Captain Williams. It is not, but there are certain very scatt activities that only enlisted men in the Navy can handle.

Mr. Kelley. Who knows what these 200 men are doing at W

ington?

Captain Pinney, Captain Williams's statement that most of t are working in connection with the traffic on the river, bet Washington and Dahlgreen and Quantico, and even down as fe Norfolk, is correct.

Mr. Kelley. Taking new guns down the river?

Captain PINNEY. Yes, sir.

Mr. Kelley. Now, that the program is ended for those guns, will you do with these men?

ptain PINNEY. We have a great deal of proving work that will to continue. It will have to go on for some time.

. Kelley. You will have to use the men just the same? ptain PINNEY. We will have to use that many down at the provround constantly.

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e stumbled along somehow, and, perhaps, we are stumbling now, it came to the question of estimating what appropriation ld be made for transportation and recruiting for that year. made it necessary to find out how many men would be diszed. We borrowed clerks from everybody, until they were ask-or them back, and finally we got a few enlisted men to help us aking our estimates of transportation and recruiting. We made estimates of transportation and recruiting, and it has turned out to be right, but we did not get the money. We got only one-half

Colonel Roosevelt. Where is the navy yard band carried? Captain Williams. At the navy yard.

These 200 men may be at the Washington Navy Yard or may not In making our estimate of the total we have largely based it on the number of men that have been found necessary in the past, when this number of 65,000 goes into effect.

Mr. Kelley. You will not continue any enlisted men in the Buren

of Navigation, will you?

Captain WILLIAMS. I hope not.

RADIO SERVICE.

Mr. Kelley. Communication has gotten to be quite a business. You have 1,305 men for the radio service. How old is the radio business in the Navy?

Captain Bryant. It started in 1903.

Mr. Kelley. How many did you have in 1905?

Captain Bryant. There was no radio service established until 1912.

Mr. Kelley. It began in 1912?

Captain Bryant. Yes, sir.

Mr. Kelley. To how many men had it grown when the war came on?

Captain Bryant. I was not here then and I can not give vou that number. I can furnish it for the record, however.

Mr. Kelley. Put in the record a statement showing how many men were engaged in the radio service on July 1, 1916?

' Captain Bryant. I will do so.

Note.—Number of enlisted men engaged in the radio service July 1, 1916— 950, of which number 442 were on shore. I should like to add, however, that when the radio service was changed to the Naval Communication Service in 1917 a number of activities (all of which logically fell under the category of communication facilities) were added and the number of personnel employed was consequently very considerably increased. The activities originally under the radio service were confined to radio only. The communication service as at present organized has cognizance of naval communications carried on by means of telegraph, telephone, cable, radiotelegraph, radiotelephone, radio compass. visual and underwater signals, and sound telegraphs, pigeons, couriers, and postal service. It also has cognizance of the operation of such naval communication systems as may be authorized by law to carry on commercial business.

Mr. Kelley. How many men were attached to this service on the latest available date you have!

Captain Bryant, On shore! Mr. Kelley, Yes; on shore.

Captain Bryant, On January 31, 1922, there were 1,301 enlisted men actually at shore stations, but the number required to man the stations properly for efficient operation on this date is 1.599.

Mr. Kelley. How many civilians are employed in connection with

the radio service!

Captain Bryant, I am speaking of the operation end of it. Bureau of Engineering, under Admiral Robison, can give you the number of civilians in the mechanical end of it. However, I can put the total number in the communication service (which includes the radio service) in the record.

r. Kelley. The mechanics are civilians?

uptain Bryant. Most of the mechanics are civilians in the navy s where the major radio repairs are made. We carry some ians, of course, here at headquarters. There are very few civilat the outlying stations which are connected with the operating ertment of the communication service so far as the radio features concerned.

r. Kelley. So that, generally speaking, the civilians are em-

ed down here at the navy yard?

aptain Bryant. Yes, sir; the civilian mechanics are mostly at the ous navy yards.

r. Kelley. And not at the various stations throughout the coun-

where you are operating?

aptain BRYANT. No, sir; all of our radio operators are enlisted onnel.

r. Kelley. Do they make repairs when anything goes wrong? iptain Bryant. Yes, sir; except in special cases.

r. Kelley. Suppose something goes wrong over here at Arlingwho would fix it?

iptain Bryant. The station crew up to a certain point, unless was something that required outside assistance.

r. Kelley. They are enlisted men at the station? ptain Bryant. Yes, sir.

r. Kelley. Where do they live? ptain BRYANT. Right at the station.

r. Kelley. Do they have barracks over there?

iptain Bryant. They have barracks right on the grounds.

r. Kelley. How many men are at Arlington station? ptain Bryant. There are 13 there now.

RADIO STATIONS AND THEIR COMPLEMENTS.

r. Kelley. I wish you would begin on the coast of Maine and us a list of the radio stations right down the coast, stating the ber of men at each station.

ptain Bryant. We will start with the first district at Bar Harwhere we have 5; at Portsmouth, 1; at Portland, 3; at Otter

r. Kelley (interposing). Where is Otter Cliffs? ptain BRYANT. That is the main trans-Atlantic and transconital receiving station.

r. Kelley. Where is it located?

ptain Bryant. Near Bar Harbor. At Newport there are 11.

r. Kelley. Have you any marines at these places? ptain Bryant. There are 12 marines at Otter Cliffs. . Kelley. Give the number of marines at each place.

ptain Bryant. San Diego, 12, and Otter Cliffs, 12, are the only s where we have marines in the United States To continue as imber of enlisted men, we have at Newport, for receiving and mitting, 16. There are 13 light vessels in the first district, and is a total of 2 operators on board these 13 light vessels. These erators are on the Nantucket Shoals light vessels. At Chatham ave 5 men; at Boston, including the whole Boston system, 23;

at the radio compass station in the first naval district, we have Chatham, 4; at Deer Island, 5; at Fourth Cliff, 5; at Glouceste at North Truro, 5; at Bar Harbor, 4; at Portland, 3; at Prices X 5; at Surfside, 5. These radio compass stations are used for givessels off the coast positions, directions, or bearings from their ticular locations, so as to enable the vessels in foggy weather or weather to reach aids to navigation in safety.

Mr. Kelley. Those stations are in the first district?

Captain BRYANT. Yes, sir.

Mr. Kelley. Now take up the second district.

Captain Bryant. We have divided up the second district spart of it is the third district and part the first. There is no s district. There are four light vessels in the third district, on there are 2 operators altogether; at the New York communic office and control there are 30; at Sayville there are 13. On the *Privateer* 1 is the complement; but there is no one on it. The 4 compass stations, as follows: At Ammagansett there are 4; a Island, 6; at Mantoloking, 6; at Sandy Hook, 5; and at New compass control, 5.

Mr. Kelley. That brings you down as far as what point

Atlantic?

Captain Bryant. To the fourth district. The first station fourth district is Cape May.

Mr. Kelley. In New Jersey?

Captain Bryant. Yes, sir; there are 6 men at the Cape May station. There are 5 light vessels in that district, but with no tors on any of them. At the navy yard station at Philadelphia are 8. There are 4 compass stations, as follows: Bethany where we have 2 men; Cape Henlopen, where we have 8; Cap where we have 5; and the Lakehurst Station, where there are The Washington system includes Annapolis, the Navy Depa station, Arlington, and the navy yard station and the Bur Standards.

Mr. Kelley. How many men do you have at Arlington?

Captain BRYANT. Thirteen.

Mr. Kelley. Where are the rest?

Captain BRYANT. There are 32 at the central control sta the Navy Department. 21 at the Annapolis high-powered: 1 at the Bureau of Standards, and 2 at the navy yard.

Mr. Kelley. The central control station has charge of all th

business?

Captain Bryant. They control all the high-powered stati the Atlantic coast and the local stations for the coast work, down the coast.

Mr. Kelley. That is to say, every station gets its instruction

this central bureau in the department?

Captain BRYANT. Yes, sir .

Mr. Kelley. That is the clerical end of it, is it not?

Captain Bryant. That is the operating end of it. They are tors, and they actually operate the system from the central office. From here they operate the stations at Annapolis, at S and at Arlington.

Mr. Kelley. You mean just as Admiral Coontz operates the

in Bryant. No, sir; the key is here. The operator here at tral control operates the Annapolis station, Arlington stathe Sayville station. He transmits the messages while sitht here.

number of men at the Naval Academy station is zero. I am you the actual number of enlisted men at these stations.

Kelley. At this present moment?

ain Bryant. Yes. At Indianhead there are two.

ELLEY. That is in the Washington district?

in Bryant. Yes, sir. The fifth district begins at Baltimore, are 3 men at the Baltimore station. At Cape Hatteras re 6; at the communication base at Yorktown there was 1, has been eliminated. There are three light vessels, with 1 r on each, making a total of 3 on light vessels. They are e Lookout, Diamond Shoals, and Cape Charles. At Moreity there are 5. For the Norfolk system there are 31. That controls all of the communications for the fifth district. re 25 of them at the operating base control station; 6 of them the navy yard station at Norfolk. In addition to these 31, e 3 at the Virginia Beach radio station.

ie compass stations the men are located as follows: At Cape at Virginia Beach, 5. The next is the Sixth District, and Charleston Control Station there are 22 men. This includes e receiving and transmitting stations here. There are four essels and one relief light vessel in that district, with no rs on board any of them. At Savannah there are three. There ee compass stations, one at each of the following places: Folly North Island, and Tybee Island. There are six men at Folly six at North Island, and none at Tybee Island.

Kelley. That takes you down to what point on the Atlantic? ain BRYANT. That takes us down to the Seventh District, gustine being the most northerly station in that district.

Kelley. You may put in the record a statement covering the I simply want to get a general idea as to how they are ited.

atus of communication personnel on shore as of Jan. 31, 1922.

Activity.	Allowed.	On board.	Activity.	Allowed.	On board.
io and communi-	16	16	L. V. No. 90, South Shoals 1 L. V. No. 5, Stonehorse	1	0
C. S. office		ĭ	Shoals 1	1	1 0
lsea		6	Shoals 1	5	1 5
radio		5	Newport (control)	16	11
0, Cross Rip 1			Bar Harbor (Otter Cliff)	90	77
4. Boston 1		ĭŏl	Portland 1		3
9, Brenton Reef 1	i	Öl	Portsmouth	5	ĭ
66, Great Round	_	1	Bar Harbor (sea wall)		5
or, or at mound	1	0	('hatham (compass)		1 4
3. Handkerchief	•	1	Deer Island (compass)		أ أ
0, 22011020111111	1	0	Fourth Cliff (compass)		5
2. Hen and Chicken	_	-	Gloucester (compass)		1 5
.,	1	0 1	North Truro (compass)		5
. 85, Nantucket	1	1	Bar Harbor (compass)		1 4
	4	2	Portland (compass) 1		3
17, Pollock Rip 1	1	0	Prices Neck (compass)	5	5
73. Pollock Rip	i	·	Surfside (compass)	. 5	5
	1	0	i · · · · ·	l	
4. Portland 1	1	0	First district, total	213	173
6. Relief1		0			

to be closed if only 1,305 men are allowed for communications on shore.

Status of communication personnel on shore as of Jan. 31, 1922—Continued.

	Allowed.	On board.	Activity.	Allowed, On
Amagausett	5	5	Jupiter	!
Amagansett. L. V. No. 87, Ambrose Chan-			Jupiter. Key West control. Key West transmitter. Miami ¹ . St. Augustine!	15
nel ¹ L. V. No. 48, Cornfield Reef ¹ . L. V. No. 68, Fire Island ¹ L. V. No. 11, Scotland ¹ New York communication	1	1 0	Miamil	5
L. V. No. 68, Fire Island 1	i	Ϋ́	St. Augustine 1. St. Petersburg 1. Juniter (company)	1 10 · 1 6
L. V. No. 11, Scotland 1	i	Ô	St. Petersburg 1	6
New York communication	_	_	Judice (Compass)	1 4
		7 5	Key West (compass) 1	5
New York compass control New York radio control New York D. C. S. office New York transmitter	14	10	Seventh district total	55
New York D. C. S. office	6	4		
New York transmitter	4	.4	Galveston 1. L. V. No. 81, Heald Bank 1. L. V. No. 102, South Pass 1. Mobile 1.	5
Vacht Privateer 1	16	13 0	L. V. No. 102. South Page 1	1
A maransett (compass)	4 1	4	Mobile 1	4
Kiro Island (compass)	6	6	New Orleans Pensacola Point Isabel Port Arthur Burwood (compass)	22
Mantoloking (compass) Sandy Hook (compass)	6 5	6 5	Point Isohel	4 25 5 7 5
Handy Hook (Company)	.,		Port Arthur	za S
Third district, total	82	71	Burwood (compass) Grand Isle (compass) Pas A Lutro (compass)	ÿ
O Man.l			Grand Isle (compass) 1	5
Cape May 1. L. V. No. 52, Fenwick Island 1. L. V. No. 79, Five Fathom Bank 1.	6	6	Pas A Lutre (compass) 1	5
L. V. No. 79, Five Fathom	٠,	"	Eighth district total	84
Bank 1	1 !	0	-	
L. V. No. 44, Northeast End ¹ . L. V. No. 69, Overfalls ¹ . L. V. No. 91, Winter Quarter ¹ . Navy yard, Philadelphia	1 !	0	Alpena, Mich. Buffalo, N. Y. Chicago, Ill. Cloveland Obio.	5
L. V. No. 69, Overland	- 1	0	Chicago, Ill.	4
Navy yard, Philadelphia	7:	ا. ه	Cleveland, Ohio 1. Detroit, Mich. 1. Eagle Harbor, Mich. 1. Great Lakes, Ill. 1. Mackinac Island 1. Manisticus, Mich. 1.	10
Bethany Beach (compass) Cape Henlopen (compass)	4	2	Detroit, Mich.	5
('ape Henlopen (compass)	7	8 1	Eagle Harbor, Mich.	4
Cape May (compass) Lakehurst (compass)1	6	5	Mackings Island	9 ¦
Dakentitst (compass)	* ,	0	Manistique, Mich.	2 1
Fourth district total	39 :	29	Manistique, Mich. Milwaukee, Wis. Office of D. C. S., Great Lakes Whitefish Point	41
]	Office of D. C. S., Great	- j
Annapolis high-power	24 :	21 '	Lakes '	2
Indianhead	4	2 1	Detour Point (compass) 1	5
Navy Department station	41	32		
Navy Department station Naval Academy 1	4	0.1	Whitefish Point (compass) 1	· · ·)
Navy yard, Washington Arlington, Va	13	2 13	Ninth district total	79
•				 -
Washington district to- tal	89 1	71	Chollas Heights	12 4
_			Inglewood. North Island (control).	27
Baltimore 1	4	3	Point Loma. San Pedro (control). Imperial Beach (compass).	4 '
Rape Hatteras	6 '	6]	Imperial Beach (compact)	26
L. V. No. 8. Cape Lookout 1	i	i :	Point Arguello (compass)	7
L. V. No. 72, Diamond Shoals 1	3	i ,	Point Arguello (compass) Point Heuneme (compass)	6
Cape Hatteras. Base Two, Yorktown, Va. ¹ L. V. No. 8, Cape Lookout ¹ . L. V. No. 72, Diamond Shoals ¹ L. V. No. 101 (Cape Charles ¹ Morphysid City	1	1	Point Fermin (compass)	4
Morehead City	5	5 6	Point Loma (compass)	4
Norfolk, control (operating).	.,	9 1	Eleventh district total	99
Norchead City	30	25	i <u>-</u>	
Migilia Dewil	5 .	3 1	Fureka 1. Mare Island high power. Mare Island low power. Office of D.C.S., twelfth district. Office of P.C.C.S.	<u>6</u>
'ape Hatteras (compass)	5	4 '	Mare Island high power	5
Hog Island (compass)	.; .5	5	Office of D.C.S., twelfth	3 .
Poyners Hill (compass)'		4 ,	district	1 i
Virginia Beach (compass)	5 '	5	Office of P.C.C.S	3 {
Fifth district total	86	74	South City	5 54
rum district (orai			Yerba Buena (control) L. V. No. 70, San Francisco 1 L. V. No. 83, Blunts Reef 1	1
'harleston control!	22	22 7	L. V. No. 83. Blunts Reef 1	i l
'harleston transmitter	6		Bird Island (compass)	6
L. V. No. 84, Brunswick 1	1	0	Eure (a (compass) 1	4
L. V. No. 34, Charleston C	1	0.	Fara lone (compass)	6 ;
L. V. No. 34, Charleston ¹ L. V. No. 94, Fryingpan Shoals ¹	1	0.	Point Reyes (compass)	6 ¦
L. V. No. 1, Martins Industry P. L. V., relief 1	Ì	0	j	
V., relief 1	1	0	Twe fth district total	111
Savannah 1	2 6	3 ·	Astoria :	6
Folly Island (compass)	6	6	Communitation office	
Tybee Island compass	5	ö	Cordova (control)	16
			Combine a fernar mission	
sixth district total	52	44	Cordova (tran-mitter) Dutch Harbor	12 6

k Stations to be closed if only 1,305 men are allowed for communications on shore. k In training. k Promised but not opened.

of communication personnel on shore as of Jan. 31, 1922-Continued.

ctivity.	Allowed.	On board.	Activity.	Allowed.	On board.
	10	7	Balboa (control)	34	20
	7	4	Cape Mala	6	1 6
Umatilla Reef 1	1	1 1	Colon	8	l 8
Columbia River 1	1	1 '	Darien		l 1Ž
, Re'ief 1	1	1	La Palma	6	2
Swiftsure Bank 1	1	1	Puerto Obaldia	ě	3
	6	6	Coco Solo ¹	ă	lŏ
	11	7	Coco Dolo		1
e and signals 1 C. S., Cordova 1	1	0	Fifteenth district total	78	51
C. S., thirteenth		. '	Cavite	46	36
,	1	1.	Guam. Office of D. C. S. sixteenth	40	24
l (control)	15	27	Office of D. C. S. sixteenth		1
l (transmitter)	11	7 1	district	2	2
	4	5	Office of Asiatic communica-	_	1 -
	11	5	tion superintendent	1	1
		1 1	Olonganol	4	آ ا
	14	10 ¦	Olongapol Vladivostok	26	33
	6	4			
	6	3	Sixteenth district total.	119	100
(compass)		2			
npass)		1	Guantanamo	33	28
+ (compass)	5	5	San Domingo (to be manned	~	_~
ık (compass)	7	3 '	by Marines)1	5	1 9
ness (compass) 1	6	1	by maintenance		
(compass) 1	5	1	Guantanamo district		
(compass) 1	5	1	total	38	37
i (compass)	6	1	total	907	- 01
oint (compass)	7	4	Cayey	27	32
npass)	4	4,	St. Croix	5	2
			St. Thomas	5	ã
enth district total	212	159	San Juan	31	22
			,		
Ionolulu	5	7	San Juan district total	68	62
tion office, Pearl	_	_ '	Tan ottan district total		
	3	2	Grand total	1,599	1, 301
 	10	8	Ciana votaliiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	-, ., .,	1 2,002
f	15	19			l
ntrol)	47	30			1
поа	12	10	·		Ì
enth district total.	92	76			

s to be closed if only 1,305 men are allowed for communications on shore.

TO BE RETAINED AND CLOSED UNDER PLAN OF 15,000 MEN FOR SHORE DUTY.

in Williams. There is also a long list of stations that will shed if this number we have allotted there is assigned.

RENCH. In connection with that statement, would it not be Captain Bryant to show the stations that will be maininder the proposed plan, with the personnel quota for each

LELLEY. You may include that in your statement, Captain, in Bryant. I will do so.

amary of stations to be retained on basis of 15,000 men on shore.

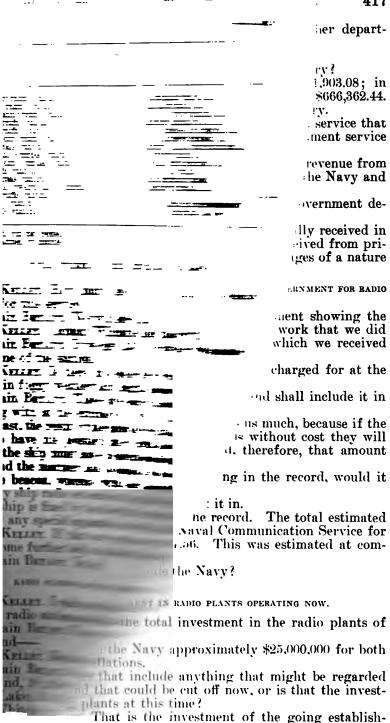
	Allowed.	At station.		Allowed.	At station.
and communi-			Fourth Cliff (compass)	5	5
e	16	16	Gloucester (compass)	4	5
S. Office	. 2	1	North Truro (compass)	6	5
sea	5	6	Bar Harbor (compass)	4	4
lio (traffic)	5	5	Prices Neck (compass)	5	5
slville)	5	5	Surfside (compass)	5	5
atrob	16	11	Amagansett (traffic)	5	5
Otter Cliff)	90	77	New York communication		
	5	1	office	6	7
sea wall)	6	5	New York compass control	5	5
mpass)	4	4	New York radio control	14	10
compass)	5	5	New York D. C. S. Office	6	4

Summary of *tation* to be retained on basis of 15,000 men on shore—Continu

	Allowed.	At station.		Allowed.	A stati
New York transmitter	4	4	Office of P. C. C. S	3	
Sayville	16	13	South City	5	
Amagansett (compass)	4 .		Yerba Buena (control)	54	
Fire Island (compass)	6	6	Bird Island (compass)	6	:
Mantoloking (compass)	6 !	6	Farralone (compass)	Ğ	
Sandy Hook (compass)	š '	5	Point Montara (compass)	6	
Navy yard, Philadelphia	ž'	8	Point Reyes (compass)	'š	
Bethany Beach (compass)	4	2	Astoria	š	
Cape Henlopen (compass)	7 '	8	Communication office	' ĭ	
Cape May (compass)	6 .	5	Cordova (control)		
Annapolis Hi-Power	24		Cordova (transmitter)		
Indianhead	4 :		Dutch Harbor	: 6	
Bureau'of Standards	ī	īi	North Head	. 1ĭ	
Navy l'epartment station	41	32	Office of D. C. S. thirteenth		
Navy yard, Washington	2	2	district	' 1	
Arlington, Va.		13	Puget Sound (control)	15	
Cape Hatteras (traffic)	6	6		. ii	
	5	5	Puget Sound (transmitter)		ì
Morehead City Navy yard, Norfolk	5	ő	Sitka	, 11	
		25	St. George	1	
Norfolk (control)			St. Paul	' 14	•
Cape Hatteras (compass)	5	4	Seward		
Cape Lookout (compass)	5	4	Fort Stevens (compass)	; 5 7	
Hog Island (compass)	5	5	Hinchinbrook (compass)		
Poyners Hill (compass)	5	4	Smith Island (compass)		
Virginia Beach (compass)	. 5	5	Soapstone Point (compass)	7	
Charle ton (control)	22	22	Tatoosh (compass)	•	
Charleston (transmitter)	6	7	City office, Honelulu	, 5	
Folly Island (compass)	6	6	Commissioner's office, Pearl	_	
North Island (compass)	6	6	Harbor	3	
Tybee Island (compass)	5		Heeia Point	10	
Jupiter (traffic)	7	8	Pearl Harbor	15	
Key West (control)	15	13	Wailupe (control)		
Key West (transmitter)	5	6	Tutuila Samoa	12	
Jupiter (compass)	4		Balboa (control)	34	
New Orleans		. 15	Cape Mala		
Pensacola	4	5	Colon	. 8	
Point Isabel	25	13	Darien	. 15	
Port Arthur	5	5	La Palma	6	
Burwood (compass)	7	6	Puerto Obaldia	. 6	
Chollas Heights		8	Cavite		
Inglewood		4	Guam	10	
North Island (control)		19	Office of D. C. S. sixteenth		
Point Loma (traffic)		4	district	2	
San Pedro (control)		1 20	Office of Asiatic commissioner-	_	
Imperial Beach (compass)		. 5			
Point Arguello (compass)		10		26	
Point Heuneme (compass)		- 4	Guantanamo	' 33	
Point Fermin (compass)		6	Cavey	i 27	
Point Loma (compass)		4	St. Croix	5	
Mare Island, hi-power		8	St. Thomas	Š	
Mare Island, low power		Ş	San Juan	31	
Office of D. C. S. twelfth dis-		,	, con outside the control of the con		
	1		Total	1,305	
trict			1000	, .,	•••

Summary of stations to be closed on basis of 15,000 men on shore.

	Present comple- ment.	1	Pi
Partland traffic station. Portland compass station. 13 light vessels, first naval district. 4 light vessels, third naval district. 7 yacht Privateer, third naval district. Cape May traffic station. Lakehurst compass station. 5 light vessels, fourth naval district. Naval Academy traffic station. Base 2, Yorktown, Va., traffic station. Virginia Beach traffic station. Baltimore traffic station. 3 light vessels, fifth naval district. Savannah traffic station. 5 light vessels, sixth naval district.	4 5 4 1 5 4 5 2	Miami traffic station St. Augustine traffic station St. Petersburg traffic station Key West compass station Galveston traffic station Mobile traffic station Grande Island compass station Pass a Loutre compass station Pass a Loutre compass station 2 light vessels, eighth naval district Alpena traffic station Buffalo traffic station Chicago traffic station Cleveland traffic station Detroit traffic station Duluth traffic station	



Mr. Kelley. Have you anything at Chicago? Captain BRYANT. We have a station at Chicago.

Mr. Kelley. Do you have anything at Gary?

Captain Bryant. No. sir.

Mr. Kelley. Nothing east of the State of Michigan?

Captain Bryant. No. sir: not on the east coast of Lake Mich We closed two stations there, one at Ludington and one at Frank Mr. Kelley. Will you tell me on what theory you operate a:

service on the Great Lakes for the Navy?

Captain Bryant. It was inherited from the war. Those sta were thrown in when the Marconi stations were purchased b Navy during the war, and they have been operated since that by the Navy Department.

Mr. Kelley. Do we own these stations?

Captain Bryant. Yes, sir; and until some one is willing to them over or operate privately owned stations sufficient to fu this service, there seems to be a sort of moral obligation on the of the Navy to continue the service.

REVENUE OBTAINED FROM RADIO SERVICE.

Mr. French. Do we receive any revenue from the radio se Captain Bryant. Yes, sir: for some of it. Of course we c receive any revenue from the Government business.

Mr. French. You maintain it primarily for Government s and then, in addition to that, you receive revenue from other ness !

Captain Bryant. Yes, sir.

Mr. French. Do we receive any revenue from the Great

Captain Bryant. Yes, sir; from ships passing through the They make considerable use of the radio service.

Secretary Deney. You do not receive any revenue from giv

ship its position?

Captain Bryant. No, sir; not from the radio compass sta The other stations are traffic stations, and the ships send repo their officers and relay them through our traffic stations in area, as well as using them for ordinary messages between and the shore.

Mr. French. You have three functions—one for the Nav for shipping, in the general interest of life and property—and you have a commercial function, which later is the revenue-pr ing service.

Captain Bryant. Yes, sir.

AMOUNTS RECEIVED FROM RADIO SERVICE.

Mr. French. I wonder if we should not have inserted some a statement of the receipts, so that we could have a bird's-eye of the income from the service.

Captain Bryant. I can give you the receipts for the years 1918, 1919, 1920, and 1921. I can give you the actual amount t into the Treasury.

Mr. Kelley. From all sources!

Captain Bryant, Yes, sir; we can not charge the Governme anything.

Mr. Kelley. You handle the messages of all the other departents free of charge?

Captain Bryant. Yes, sir.

Mr. Kelley. How much did you turn into the Treasury? Captain Bryant. In 1917, \$32,249.34; in 1918, \$291,903.08; in 119, \$221,171.19; in 1920, \$641,584.90, and in 1921, \$666,362.44.

hose are the amounts actually deposited in the Treasury.

Mr. French. That money, you might say, comes from service that would necessarily have to maintain for the Government service pen if you did not receive any revenue at all?

Captain Bryant. Yes, sir. Those amounts represent revenue from rvice over and above the service that we perform for the Navy and

ther Government departments.

Mr. French. Nothing is charged up against the Government de-

partments on account of this service?

Captain BRYANT. No, sir; these amounts were actually received in money and deposited in the Treasury. They were received from priate sources, for services performed in handling messages of a nature ther than purely Government.

MOUNT WHICH WOULD HAVE BEEN RECEIVED FROM FEDERAL GOVERNMENT FOR RADIO SERVICE IF CHARGES WERE MADE.

Admiral Coontz. I would like to have a statement showing the atire amount earned, or a statement showing the work that we did or the Federal Government last year, and for which we received o money.

Mr. Kelley. That is, if that service had been charged for at the

Captain Bryant. We can give that to you and shall include it in he record.

Mr. Kelley. Of course, that does not help us much, because if the ther departments can use a service like this without cost they will make use of it for every little thing, and, therefore, that amount rould not represent a saving.

Secretary Denby. It would be interesting in the record, would it

Mr. Kelley. Yes. Go ahead and put it in.

Captain Bryant. I will put it in the record. The total estimated bearnment traffic handled by the Naval Communication Service for he fiscal year 1921 was \$3,647,947.56. This was estimated at com**ler**cial cost (Government rates).

Mr. Kelley. Does that include the Navy?

Captain Bryant. Yes, sir.

TOTAL NAVAL INVESTMENT IN RADIO PLANTS OPERATING NOW.

Mr. French. What is the total investment in the radio plants of e country?

Captain Bryant. In the Navy approximately \$25,000,000 for both hip and shore installations.

Mr. French. Does that include anything that might be regarded a war charge and that could be cut off now, or is that the invest**lent of the going plants at this time?**

Captain BRYANT. That is the investment of the going establish-

ent.

ADVISABILITY OF NAVY CONTINUING COMMERCIAL RADIO PRACTICE.

Mr. French. There is another question I would like to ask as a matter of interest. There is a very fine increase in commercial business, and from your outlook does it seem that it is becoming the fixed habit of the business world to make use of the radio, so that we could look for still further increases?

Captain Bryant. Undoubtedly it will increase, but I think it has been the Secretary's attitude that where a private station can take over the commercial work that is already done by a naval station the naval station must cease and the privately owned station be allowed to operate.

Mr. Kelley. How does our establishment compare with the prival establishments in volume of business done by each for private use!

Captain Bryant. They are very loath to give us figures as to the amount of traffic they handle, and I doubt whether we could get the from them.

Mr. Kelley. What is your theory about this radio business? D you think the Navy should go on handling it, or turn it over to private

enterprise!

Secretary Denby. I think the Government ought to go on an carry it on. I think some of it could properly be turned over, but I think the Navy is the proper agency to take care of shipping and interests of that sort, and certainly the traffic with our outlying por sessions of the high-powered transoceanic and transcontinental radio of the Government—that is, of the Navy—not with the idea of competing with private parties but simply the old idea that has always prevailed of the Government not engaging in private business.

Mr. Kelley. When you make charges for private business, d

you follow the commercial rates or make lower rates?

Capt. Bryant. We follow the commercial rates, and where the have raised the rates we go up to where they are. In the matter of press rates, however, Congress has authorized special low rates in certain localities.

Mr. Kelley. So they have no legitimate cause to complain about your cutting under them?

Captain Bryant. No, sir.
Admiral Coontz. You see, at sea, if an officer wants to send message he goes to the radio and pays for it, and if an officer's will sends him a message at sea she pays for it. I have called attented to the vast amount of work we do in central Europe.

LOCATION OF HIGH-POWERED RADIO STATIONS OUTSIDE OF THE UNITED STATES.

Mr. Kelley. We will come to that later. Where are we engage in the radio business, outside of the United States?

Captain Bryant. In communication with the West Indies, Cap

Zone-

Mr. Kelley (interposing). Are those what the Secretary call high-powered stations!

Captain Bryant, Yes, sir. We communicate with the outlying

possessions through our high-powered stations.

Mr. Kelley. Where are the high-powered stations that belong

the Government located outside of the United States?

Captain Bryant. In Porto Rico, in the Canal Zone, at Gu tanamo, medium high powered; at Cordova, Alaska; at St. Par ibilof Islands; Honolulu, at Guam, at Samoa, medium high powd; at Cavite, at Vladivostok, or Russian island right near Vladitok, and there is a medium-powered station at Peking in the letion grounds.

Mr. Kelley. We have built all of these during the war, have we?

Captain Bryant. No. sir.

Mr. Kelley. All the high-powered stations?

Saptain Bryant. No, sir. This was the plan before the war rted, sir.

Mr. Kelley. I know, but when were they built?

Captain BRYANT. The ones that actually grew out of the war were at at Annapolis, which was considered necessary for maintaining nmunication with the American forces in France, and Vladivostok, communication with the American forces in Siberia. The act of ne 30, 1914, provided for the commencement of the stations in the nal Zone, Honolulu, Guam, Tutuila, Cavite (Philippines), and their ction was undertaken immediately after the funds were availle. The Porto Rico station was appropriated for in the act of arch 4, 1917. Guantanamo was built in 1915. Cordova, St. Paul ribilofs), Tutuila and Peking have been increased in power since 17.

RADIO SERVICE IN EUROPE.

Mr. Kelley. What have you built in Europe? Captain Bryant. You mean in the way of radio stations? Mr. Kelley. Yes.

Captain BRYANT. We have no radio stations in Europe, except at at Constantinople; there is a receiving station where the ented men keep a watch at the High Commissioner's office in Conntinople, which keeps him in communication with the destroyers trolling around that area.

Mr. Keller. Then what does the admiral mean about so much work

ng done in central Europe?

Captain Bryant. I have not finished yet. There is a communican service in central Europe which connects up with our highwered trans-Atlantic service to France. We communicate direct th the Lafayette station in France, and they have permitted our rators to receive messages from Annapolis direct. They are passed to the shore communication system in Europe, which was estabned at the time of the armistice, immedately after the war, in contion with the relief work that was going on, such as the child's ef. the Red Cross relief, the Near East relief, and the Russian re-The reason for this establishment appears to have been that re was no reliable government in central Europe which could opera communication system so that messages would go through reolv, that is, no one could be sure that his message would get through all at any time, so these association in order to carry on their lanthropic work realized they had to have a reliable communica-1 system and as the naval communication system, which had been rating, could perform this service efficiently its work was con-The relief associations are paying practically all of the exses of that system. We have about 20 men engaged on that work The Army has a land-wire office at Coblenz; the wire system it from Paris to Coblenz, to Vienna, to Prague and Warsaw, and were side branches. At Vienna arrangements were made with the Austrians to operate the station right near Vienna, a radio station, which puts us in direct communication with Constantinople by radio, and I may add, this station was used a great deal while the Adriatic detachment was patrolling the Adriatic, for maintaining communication with that detachment.

RADIO SYSTEMS OF OTHER GOVERNMENTS AND THEIR COOPERATION.

Mr. Kelley. Does Great Britain maintain an elaborate system like this?

Captain Bryant. Oh, yes, sir.

Mr. Kelley. And any other nations?

Captain Bryant. Great Britain, France, Italy—and Germany is now beginning.

Mr. Kelley. Have we arrangements with those Governments for

the interchange of messages?

Captain BRYANT. We have arrangements with the French Government for the interchange of official messages; we work direct with the Italian Government station, the Japanese Government, the German Government, and any other government that has a station that can work with the United States stations.

Mr. Kelley. How about private-messages—will they deliver them! Captain Bryant. No, sir. Where there is a privately owned United States radio station operating a circuit with a radio station in any other country we do not attempt to handle commercial messages.

PROHIBITION BY LAW OF GOVERNMENT FROM INTERFERRING WITH COMMERCIAL RADIOS.

Mr. Kelley. Does the fact that the United States is engaged in this business have a tendency to keep private people from developing the business on their own account?

Captain Bryant. I should say not.

Mr. Kelley. Suppose you were inclined to go into the radio business in South America, we will say; would you not be a little bit fearful, with the United States Government in the business on such a large scale, that it would be a dangerous thing for you to do?

Captain Bryant. The law prohibits it, Mr. Kelley; the private companies are protected by law. If anything like that is about to take place all that is necessary to be done to stop any Government competition is for the Secretary of Commerce to notify the Secretary of the Navy that the normal communication requirements are being met by a privately owned station.

Mr. Kelley. But sometimes it is so easy to change the law and

you might hesitate to go into that enterprise.

PAYMENT BY NAVY FOR USE OF PRIVATELY OWNED BADIO.

Mr. French. Do you have the advantages of private radio service, throughout the world for the Navy, as you may need the service, or do you have to pay for that?

Captain BRYANT. Our naval vessels have to pay for every dispatch they send through a foreign coast station or through one of our own coast stations that is not owned by the Navy Department.

CAPITAL INVESTED IN RADIO SYSTEMS BY PRIVATELY OWNED BUSINESS.

Mr. French. What would you say is the capital invested by private concerns in the radio business, or would you have any way of estimating it?

Captain Bryant. The Radio Corporation of America, which is e biggest single company in the United States, has an investment, believe, estimated at about \$16,000,000; the Federal Co., which a manufacturing company but has asked for concessions in China nd now has one by which they mean to communicate between hina and the United States, is the next largest company, but I am ot able to estimate what their investment is.

TOTAL COST TO NAVY FOR OPERATING RADIO SYSTEM.

Mr. French. Suppose we did not have this institution maintained y the Government and yet wanted the service for our Navy and for shipping and were compelled to pay the rates, how would the expense compare with the expense of keeping up this as an instiution under the Government?

Captain Bryant. Well, I figure that we get about a 16 per cent

eturn on our investment.

Mr. French. At present? Captain Bryant. Yes, sir.

Mr. Kelley. What do you mean by that?

Captain Bryant. I mean that with the money invested we save

hat much money on it.

Mr. Byrnes. But you have not deducted your operating expenses, ave you, and you mean that the amount of revenue is about 16 er cent of the money invested?

Captain Bryant. Yes; that is what I mean, the estimated revenue.

Mr. Byrnes. But it is not the net return?

Captain Bryant. No.

Mr. Kelley. But you do not know what the cost is? Captain Bryant. The cost can be figured up for each independent

Mr. Kelley. What do you figure we are paying for radio in the

iavy per annum?

Captain Bryant. I will give you the figures for the maintenance That will be included in a statement which I shall place in the

Mr. Kelley. What figures have you that you could give just the

peration?

Captain Bryant. I can give you the total number of words we

ave handled.

Mr. Kelley. I do not want anything like that. I want to know that the total system costs for operation, including repairs and up**ee**p of every sort.

Captain Bryant. I will include that in my statement for the

ecord.

Mr. Byrnes. You do not advocate this as a money-making propoition, but because you believe the Navy ought to control the radio

tations, is that the theory?

Captain Bryant. Primarily, of course, it is in the interest of ational security, and that was the reason the system was built up, nd the Navy should operate and control the system in the interest f national security.

GOVERNMENT CONTROL OF HIGH-POWERED RADIOS.

Mr. Kelley. What did you mean when you said the Government nght to control all of the high-powered stations?

Captain Bryant. My reason for saying that is that the ! powered stations, which are established, owned, and operated in Navy are the backbone of the communication line which our would use in any naval campaign. I refer to naval high-postations. Private stations should however, be regulated in Federal Government.

Mr. Kelley. And it is the theory that no private concerns

build high-powered stations like them?

Captain Bryant. For commercial purposes with other commercial

I think they should build them.

Mr. Kelley. That is why I did not quite undestand you. Captain Bryant. If they were built where our strate require it, they might not necessarily be good commercial in although, as a rule, naval stations happen to be in places yield some commercial returns.

Mr. Kelley. If the Government controlled all the histations would we have high-power stations enough to the commercial business of the private companies and o

Captain Bryant. I think we would have; yes, sir to include the privately owned high-powered stations.

Mr. Kelley. And there would be no objection to arbetween the Government and private companies for thigh-powered stations—is that your idea or, perhaps, clear in my own mind about this.

Secretary Denby. I do not think the captain ha

abolishing of these.

Mr. Kelley. I am floundering because I do not

mean and I am trying to find out.

Captain BRYANT. The way I look at it is this: requirements for our naval operations and what before you was the fact that this system of naval tions, established in the United States and out a possessions, is based on the strategic needs of the or any naval campaign in any area, while the are established primarily in places where the and I feel, of course, that they should have exprivilege to go ahead and do that.

Mr. Kelley. Your remarks did not include the

as that.

Captain BRYANT. Not by the Navy; no, sir.
Mr. Kelley. Nor by the Government?
Captain BRYANT. Control, yes; but not ownered stations sufficient to meet all the needs of Captain BRYANT. Of the United States.

The CHAIRMAN. That is, in communication Captain BRYANT. Yes, sir; if you include The CHAIRMAN. And I think I understoworld not be any objection to the use of the Navy by the commercial contents. Not exactly that, sir.

rnow you did not use

Captain Bryant. To be used for commercial purposes.

The CHAIRMAN. But controlled and operated by the Navy at a to be paid by the commercial institutions which might wish to pse them?

Captain Bryant. Yes, sir; for transmitting their messages, but

keeping the operation in the hands of the Navy.

The CHAIRMAN. And if that conclusion is correct, do you think investments by commercial enterprises in the radio service of the world would not be justified?
Captain Bryant. Well, I think it has justified itself, because they

have already done it.

The CHAIRMAN. We need not argue that question if it is out of the wav

Mr. Kelley. When was the station at Vladivostok built?

Captain Bryant. It was built in the winter of 1918, when the allied forces went into Siberia.

AUTHORITY FOR NAVY TO ESTABLISH NEW STATIONS.

Mr. Kelley. Has the Navy Department the authority to establish new radio stations whenever they see fit and wherever?

Captain Bryant. No, sir; I believe they have always been appro-

priated for by Congress.

Mr. Kelley. For specific places?

Captain BRYANT. The high-powered stations have been specifically appropriated for.

Secretary Denby. But not the Great Lakes stations?

Captain Bryant. No; they have not.

Mr. Kelley. Do you think you now have authority to establish maller stations?

Captain Bryant. Yes, sir; there is such authority.

Mr. Kelley. The only limitation being the amount of money appropriated for the Bureau of Engineering?

Captain Bryant. Yes, sir; but instead of establishing stations, we

have been cutting them out.

Mr. Kelley. I know, but I was asking for the authority.

Secretary Denby. If it were included in the appropriation it could

Colonel Roosevelt. I checked that up for my own information some time ago, and I found we have authority to establish the smaller stations if they come within the appropriation, but as to the highpowered stations, it was thought best, because they were large underkings, to get specific authority.

Admiral Coontz. And we can buy land up to, I think, \$500.

Captain Bryant. Yes, sir.

The CHAIRMAN. Did I understand you to say you did not have suthority to establish the Great Lakes stations?

Secretary Denby. No: we did not have a special authorization.

The Chairman. You bought them, as I understand it?

Captain Bryant. Yes, sir: they were bought during the war. The CHAIRMAN. What authority did you have to buy them? Secretary Denby. We had the war authority to do that.

The CHAIRMAN. And, of course, that being done, you maintain

hem under the war authority?

Secretary Denby. Captain, have we bought any since?

Captain BRYANT. Not since the war.

The Chairman. But you are operating stations taken over during the war without having any law that authorized either their establishment or operation; is that right?

Secretary Denby. The war authority, I think, was broad enough

for that.

Mr. Byrnes. Is it not a fact that there was some legislation passed by the Merchant Marine and Fisheries Committee which authorized them to be taken over?

Secretary Denby. I do not know, but I can easily find out. Captain Bryant. The Secretary of the Navy purchased some of the coast stations during the war; he purchased all of the Marcon coast stations.

Mr. Kelley. My recollection is that you had authority to acquire anything to carry on the work of the Navy during the war, and under that authority you acquired these stations? Captain Bryant. Yes, sir.

Mr. Kelley. And I suppose under the same general authority

you can operate anything needful for the Navy.

Colonel Roosevelt. I think it might be well to draw attention to the fact that the Navy, perhaps more than anybody else, has been responsible for very great advances in radio.

Mr. Kelley. But once in a while you hear the idea advanced by people who are the business in a private way that there is no encouragement for them to make experiments and go forward because the Government is in it in such a large way.

Secretary Denby. The whole thing is in such a state now that it very difficult to settle it. The radio telephone has complicated it

and a board is now sitting on that.

OTHER GOVERNMENT AGENCIES OPERATING BADIOS.

Mr. Kelley. Is there any other Government agency that operated radio?

Secretary Denby, Yes; I think the Post Office Department, the Army, and the Department of Commerce, but I do not know any thing about their stations.

Colonel ROOSEVELT. The Post Office Department operates practically nothing, although they do operate some very small stations

Captain Bryant. They have about seven or eight stations acros the country.

The Chairman. And that is in connection with their air med service?

Captain Bryant. Yes, sir.

The CHAIRMAN. They are not authorized by law to do that.

Colonel Roosevelt. The Army operates more in the interior, and they have sets they are installing at the headquarters of each corn area, and the operations of the Department of Commerce have do with their lightships, relatively few in number and all of log power.

Mr. Kelley. But no other department operates on the coast or to

outside countries?

COOPERATION BETWELN ARMY AND NAVY IN RADIO WORK.

Admiral Coonty. The Army has certain stations and at the pres ent time, at the request of the Secretary of the Navy, a joint board of which General Pershing is chairman, is endeavoring to ascertain whether the Army and the Navy in any manner conflict and what stations, if any, can be cut out, and they are to recommend that every message it is possible to send by the Navy over Army radio, or vice versa, shall be sent.

Colonel Roosevelt. We are zoning the whole thing as far as we

are able.

Admiral Coontz. It is under consideration by the joint board at this very minute.

RADIO AT HAITI.

Secretary Denby. If I may I would like to ask Captain Bryant a question or two. When I was in Haiti they told me that if the Navy radio would increase its facilities it would easily pay for itself, and they were very anxious to have it done. I am asking now, for my own information, what that status is. That is a Marine

Corps station, but do you know about it?

Captain BRYANT. Yes, sir; the Navy owns it and the marines operate it. They want to get a high-powered station there so as to communicate direct with the United States and have it handle commercial business as well as Navy business, but we felt that the expense necessary for an increase in power was not justified because they can communicate direct with Guantanamo and San Juan, from either of which places communication with the United States is practicable.

Secretary Denby. You do not think it would be beneficial to

increase the power for commercial purposes?

Captain BRYANT. No, sir.

TOTAL OPERATING EXPENSE OF RADIO BY NAVY AND VALUE OF INVESTMENT.

Mr. Kelley. Will you put in the record, after you ascertain what the fact is, a statement giving the total operating expense of the radio system of the Navy and also the value of the investment as nearly as you can get at it?

Secretary Denby. You mean the cost price?

Mr. Kelley. I would not say that, but I would say as near as you can get at what the entire plant cost?

Value of the naval shore radio establishment as of Apr. 1, 1921.

Patents	795, 318. 58 7, 029, 800. 00
Total shore stations	15, 420, 958. 58
Ships and other installations.	
8hips	6, 828, 924. 57
Aircraft	119, 536. 00
Patents	625, 000. 00
Sound apparatus	2, 164, 697. 00
Total ships Total ship and shore	

Secretary Denby. In other words, what it would take to construct that plant, because its value to-day, if sold at second hand, would probably be very much less than it would cost to replace it.

Captain Bryant. That includes the pay of the personnel, I pre-

sume?

Statement of Naval Communication Service, fiscal year 1921.

Commercial radio traffic, net Government radio traffic (b)	(a) \$3%0, 188. 85 (c) 3, 647, 947. 56		
Total radio. Lasved wire tolephone traffic Lasved wire tolegraph traffic.	(c) 120, 170, 48 (c) 66, 459. 81	(c) \$4,02%, 136. 41	
Total based wire. Telephone service rendered Navy. Commercial telepraph and eable traffic, Navy. Commers bearings to United States Mavy (7,244). (Omipass bearings to other vessels (51,516). (a) 61,819.2	(d) 8, 692, 80 (d) 61, 819, 20	(c) 186, 630. 29 (j) 229, 596. 36 (k) 85, 442. 84	
Total compass service		70, 512, 00 83, 880, 00 84, 6	384, 197. 90
,	1, 150, 000, 00		
Total leased wire. 50,261.76 Total leased plant and wires.	76 (f) 195, 915. 88		
Tradical plant expense Traffic— Telegraph and cable tolls Telegraph and cable tolls	83,942.24	1, 345, 915, 88	
(c) (1, 993, 87)	188	(g) 169, 386. 06	
Total Navy Civil Navy Civil Navy Civil Navy Civil Civil Navy Civil Civil Navy Civil Civil Navy Civil Civil Navy	(6) 2, 413, 774, 20		

 		3,117,350.20	4,632,651.16	51,546.74	h no money value can	Voyes,	raffic Section.
T	503,576.00 200,000.00				o accounts, etc., to which	LEIGH NOYES,	Commander United States Navy, Chief of Traffic Section.
(A) 156,000.00					of international radi		nander United St
				year 1921 (l)	eorological service, handling	\$	Coma
				unication Service for fiscal y	ng Board. rrmnents. since. all Navy traffic. the debit. the debit.		
D. N. C. Office (112)	Total civil under DNC Civil radio personnel (Engineering).	Total personnel expense (¢)	Total debit. 4,632,651.16	Net saving to Government of Naval Communication Service for fiscal year 1921 (1)	 (a) Cash turned into Treasury. (b) Includes all Government departments and Shipping Board. (c) Estimated at commercial fock (Covernment rate). (d) Estimated at average charge made by foreign governments. (e) Includes at pay and allowances, including subsistence. (f) Plus, (g) is "Psy, miscellancous," sub. [i). (g) Covers entire amount pad to commercial lines for all Navy traffic. (h) Under legislative, executive and judicial. (i) Plus (g) equals (f) plus (k) and the credit balances the debit. (j) Eus (g) equals (j) plus (k) and the credit balances the debit. (j) Exclusive of military value, safety of life at sea, pigeon service, time and meteorological service, handling of international radio accounts, etc., to which no money value can assigned. 	mitted.	
o.x.c	Total	Total person	Total debit	Net saving to	(a) Cash turned into Treasur (b) Includes all Government (c) Estimated at commercial (d) Estimated at average cha (e) Includes at pay and allow (f) Purs (g) is "Pay, miscella (g) Covers entire amount pais (h) Under legislative, executi (i) Plus (g) equals (f) plus (k (l) Exclusive of military val	Respectfully submitte	

•			£2, 068, 751. 74	215, 139, 48 (1) 90, 756, 44 (k) 35, 668, 22	(d) 46, 07% M	\$2, 456, 385, 72			704, 969, 07		(9) 66, 162. 67	
1921.)	(a) \$144, 659. 78	(c) 1, 924, 091. 96	13, 649, 98 176, 669, 67 24, 819, 83	(d) 11, 970, 00 (d) 34, 10%, 90			9020, WW. W		(/) 84, 969. 07	30, 494, 45 35, 668, 22		(r) 1, 195, 148. 16
21, to Dec. 31,	(c) \$1, 422, 69%, 22 (c) 501, 393, 74						(i) 60, 262, 03	24, 707. 04			(e) 183, 246. 99 (e) 1, 001, 901. 17	
Statement of Naval Communication Service first half steal year 1922 (July 1, 1921, to Dec. 31, 1921.)	mercial radio traffic, net y radio traffic er Government radio traffic (b).	Total Government radio	Total radio Leased-wire depithone traffic Leased-wire elegraph traffic, Navy Leased-wire telegraph traffic, other Government	Total leased wire. Telephane service rendered Navy. Commercial telepraph and eather raffic. Navy. Compass bearings to 'nited States Navy (9/75). Compass bearings to other vessels (28/124).	Total compass service	Total credits (I). Debits: Plant—	Asantonium dentro plants. Leased telephone wires. \$10,212.48 Leased telephone wires. \$10,512.48 Leased telephone wires. 11,404.56		Total leased plant and wires. Total plant expense.	Traffic— Telephone local and L. D. tolls. Telegraph and cable tolls.	Total traffic expense Personnel Officers (99) Enlisted men (1,300)	Total Navy (Yivi= Field service— (Gerral (SI)) Telephone (109) Telephone (109) Telephone (38)

	2, 306, 798. 67	149, 497. 05	oy value can
1, 635, 666. 93			• which no mon
190, 518, 77			accounts, etc., t
Total personnel expense (*).	Total debit. 2, 306, 798. 67	Net saving to Government of Naval Communication Service for six months (!)	(a) Cash turned into Treesury. (b) Includes all Government departments and Shipping Board. (c) Estimated at commercial cost (Government rate). (d) Estimated at average charge made by foreign governments. (e) Includes all pay and allowances including subsistence. (f) Plus (g) is: "Pay, miscellaneous," sub. 10. (g) Covers entire amount paid to commercial lines for all Navy traffic. (h) Under legislative, executive, and judicial. (i) Plus (g) squal (i) plus (k) and the credit balances the debit. (i) Plus (g) equal (ii) plus (k) and the credit balances the debit. (i) Elus (g) equal (ii) plus (k) and the credit balances the debit. (ii) Elus (g) equal (iii) plus (k) and the credit balances the debit. (iii) Elus (g) equal (iii) plus (k) and the credit balances the debit. (iii) Elus (g) equal (iii) plus (k) and the credit balances the debit. (iii) Elus (g) equal (iii) plus (g) equal (iii) plus (g) executive of military value, salety of the assagned.

Commander United States Navy, Chief of Traffic Section. LEIGH NOYES,

Respectfully submitted.

be assigned.

RATING AND PAY OF MEN ENGAGED IN RADIO SERVICE.

Mr. Kelley. Yes; all the expense. What ratings are engaged this kind of work mostly?

Captain Bryant. Radio men. Mr. Kelley. What classes?

Captain Bryant. From chiefs down to second class, although the are a few third class ashore.

Mr. Kelley. They would get about what pay per month?

Captain Bryant. Chief radio men get \$126 a month; the pay the lower ratings is, of course, less, depending on the rating.

Mr. Kelley. Are most of them those highly paid officers, from:

to \$126 a month?

Captain BRYANT. No: there are more in the lower ratings there are in the rating of chief radioman. There are a good machiefs now on the Pacific coast, and navigation has been trying to them adjusted so that we will have a better proportionate disbution.

Mr. Kelley. Captain, can you tell me how many of these 1.305 in each rating, the number of men in each rating with the pay of each

Captain WILLIAMS. I believe the rates run, \$126, \$99, \$72, and: Mr. Kelley. Please send to the committee a statement showing number in each grade and the pay of each.

Captain WILLIAMS. Yes, sir.

The Chairman. The Navy has been advocating the control of radio business for commercial purposes, has it not?

Captain Bryant. The last administration advocated that, I th

The CHAIRMAN. And the present administration?

Secretary Denby. It advocates the regulation of radio, and the a matter which is now agitating everybody.

The Chairman. Has that matter been before any of the He

committees?

Secretary Denby. Not that I know of.

Mr. Kelley. I notice that you had 22 men at the Paris headquers on the 1st of July. What are they doing over there now?

Captain Bryant. Some of them are used in connection with land lines in central Europe.

Mr. Kelley. That is, they are used in connection with the reservice?

Captain Bryant. Yes, sir.

Mr. Kelley. It says at the headquarters.

('aptain Bryant. That was the naval staff headquarters in Eur and I know some of the radio men were attached there and vactually doing duty there.

AIR SERVICE.

DISTRIBUTION OF ENLISTED PERSONNEL IN AIR SERVICE.

Mr. Kelley. Now tell me why you need 1,070 enlisted meraviation?

Captain WILLIAMS. You have not forgotten the hospital iten Mr. Kelley, No; I will come back to that.

Commander Ellyson. The Fleet Air Base at San Diego t 736: the Anacostia Experimental Station 211; Lakehurst 38; Hawaii 85. That brings it up to the total of 1,070.

Mr. Kelley. What do these enlisted men do?

Commander Ellyson. At Anacostia there are 3 in the clerical deirtment, 4 in photography and aerology, repair and overhaul 48, perimental 52, handling of planes and minor overhauls 56, care ordnance gear equipment 4, radio communications 15, upkeep of uildings and grounds 14, medical department 2, commissary deertment 12, and police duties 1.

Mr. Kelley. An all-around service from mechanics to helpers of irious sorts to take care of the machines when the boys bring them

Commander Ellyson. Yes, sir.

NUMBER OF MACHINES IN ACTUAL FLYING CONDITION.

Mr. Kelley. Do you know how many machines there are in actual

ndition for flying now?

Commander Ellyson. I can tell you at each station how many are lowed and there are approximately 50 per cent more in reserve at ch station. Do you want it by stations or by grand total?

Mr. Kelley. Just give us the total.

Commander Ellyson. The total at shore stations?

Mr. Kelley. Yes, sir.

Secretary Denby. Of all types?

Mr. Kelley. Yes, sir; all types of machines that are in good con-

tion for flying.
Commander Ellyson. I can not give you that. I have just those

condition for operating.

Mr. Kelley. All right; just those in condition for operating. Commander Ellyson. At Anacostia, 20; at Coco Solo, 16; at Pencola, 181; at San Diego, 91; at Pearl Harbor, 15; at Hampton ads. 75; at Dahlgren, 4; at Newport, 2.

Mr. Kelley. How many does that make altogether, Commander?

Commander Ellyson. Four hundred and four.

Mr. Kelley. Are those in operation all the time? Commander Ellyson. At Hampton Roads I gave 75 machines, d there are only four in operation.

Mr. Kelley. Can you give us the total number that are in operan. without giving them by stations?

Commander Ellyson. There is an allowed complement of so many chines to be kept in operation.

Mr. Kelley. Give us that number.

Commander Ellyson. One hundred and sixty-seven.

AIR STATIONS TO BE CLOSED FOLLOWING PROPOSED COMPLEMENT.

Mr. Kelley. And you need 1,070 men? ommander Ellyson. One thousand and seventy men would nesitate closing Hampton Roads, closing the training school at Penola. and all other stations except Hawaii.

AIR STATIONS TO BE OPERATED UNDER PROPOSED COMPLEMENT.

Ir. Kelley. And what places would be left? Commander Ellyson. San Diego, Anacostia, Lakehurst, and waii.

Mr. Kelley. The bulk of these operations is at San Diego? Commander Ellyson. Seven hundred and thirty-six are need at San Diego.

Mr. Kelley. How many have you at San Diego? Commander Ellyson. About 100 less than that.

AIRPLANES AT CANAL ZONE.

Mr. Kelley. How many airplanes have you at the canal? Commander Ellyson. Sixteen.

Mr. Kelley. How man has the Army down there?

Commander Ellyson. I do not know.

Mr. Kelley. The airplane business on the canal belongs to t Army and it would not matter whether we had any there or not!

Commander Ellyson. Yes, sir; we are responsible. Mr. Kelley. How many machines have you there? Commander Ellyson. We have only four there. Mr. Kelley. Might not even those be cut down? Commander Ellyson. We can not do it.

TOTAL NUMBER OF MEN ON SEA AND SHORE DUTY JANUARY 1, 1922.

Mr. Kelley. Did you make a distribution for the Naval Comm tee of the personnel ashore at the same time that you made a tribution of those affoat?

Captain WILLIAMS. I do not think there was one made. Colonel ROOSEYELT. I am practically certain there was none ma Mr. Kelley. What was the ratio of men afloat to men ashore for the war, in 1916?

Captain WILLIAMS. Two to one.

Mr. Kelley. One third!

Captain Williams. Yes, sir; that is, approximately.

Mr. Kelley. To make that a fair comparison we will have to clude the proper number for aviation and radio. That would about all we would have to do.

Captain WILLIAMS. There is another element to which I want call your attention, the hospital force.

Mr. Kelley. If you will answer this question of mine we will back to the hospitals.

Captain Williams. I do not know just exactly what you are di

ing at, Mr. Kelley.

Mr. Kelley. Before the war you said that we had one-third many people on shore as on the sea?

Admiral Coontz. No: one-half.

Mr. Kelley. One-half?

Captain WILLIAMS. Two to one, two at sea and one ashore.

Mr. Kelley. That is one-third the entire number.

Captain Williams. You are speaking of this distribution 15,000 and its peculiarities?

Mr. Kelley. How many men did we have ashore and afloat

Commander Learry. I have not that. If you will take the he ings of 1915 you will find it.

Mr. Kelley. Captain, how many men did you have at sea on the t of January, last?

Captain WILLIAMS. Sixty-eight thousand one hundred and thirty-

ght.

Mr. Kelley. How many did you have ashore?

Captain WILLIAMS. I would like to call your attention to the fact Lat the 68,000 probably included shore-based submarine tenders, 3,861. That includes men under training and men on general de-

Mr. Kelley. Seventeen thousand four hundred and seventy-two ou gave the Naval Committee as being the shore establishment on

Le 1st of January?

Commander Leany. That probably did not include men under

aining and general detail.

Mr. Kelley. You say that you had 68,000. You must have had ore men than that on the 1st of January.

Captain Williams. You are talking about civilian employees?

Mr. Kelley. No, sir; enlisted men.

Captain WILLIAMS. There must be some mistake.

Mr. Kelley. Who prepared that table?

Captain WILLIAMS. That came from the Bureau of Yards and ocks report which was two years old. I would not swear to it, but at is my judgment.

Mr. Kelley. That is fairly recent. It says:

WASHINGTON, D. C., February 10, 1922.

MY DEAR MR. BUTLER: Referring to your telephonic request of January 7, 22, to be furnished a statement showing the number of civilians, officers, and listed men stationed at each navy yard, naval station, or other shore activity, of recent date, made upon the Bureau of Yards and Docks-

Captain WILLIAMS. That is what I am talking about.

Mr. Kelley (reading):

There is transmitted herewith the information requested.

Then it is headed January 1, 1922.

Captain WILLIAMS. I think that is the annual report of the Bureau

Yards and Docks for the year 1921.

Mr. Kelley. It is signed "Edwin Denby, Secretary of the Navy." hen it says, "January 1, 1922, statement showing the number of ficers and enlisted men (Navy and marine) and civilians stationed each navy yard, station, and other shore activity." Then it goes with the list. You mean to say we can not rely on that as being correct statement of facts?

Captain Williams. Apparently not. It was used for another pur-That was a list of shore stations. There might be stations on ore that the Bureau of Yards and Docks would not know anying about, might not come under the bureau. You asked the ureau of Yards and Docks for personnel information. That thing is been in existence now for two or three years and has not been cognized. That is a copy of it.

Mr. Kelley. If there is any erroneous statement in it, I would like

have you point it out. Captain Williams. I think there were 20 pages of the original nich was made up for that purpose, the appropriation "Maintence. yards and docks."

Mr. Kelley. When you send these things up here like that, printed by the proper committee, signed by the Secretary of the Navy, with all the stations named and all the number of men set down opposite each one, what do you expect the layman up here to do, to accept

the figures as truthful?

Captain WILLIAMS. That is absolutely right in answer to the question upon which it was based. It is absolutely wrong in answer to the question which I am answering. The question upon which that was based was for the Bureau of Yards and Docks, to give information of the men at shore stations, which they had cognizance of They prepared that for the Naval Committee. The Naval Committee was on a totally different track then.

HOSPITAL FORCE.

Mr. Kelley. What about the hospitals?

Captain WILLIAMS. Now, for the hospital business, you remember that the law is peculiar in regard to the hospital personnel. The hospital personnel is designated as 3½ per cent of the enlisted force of the Marine Corps, and it is specified that it shall be in addition to the personnel allowed in the Navy and in the Marine Corps. The whole element, as stated yesteday, does not exceed 15,000, and we counted the Hospital Corps me in the 15,000. This 1,645 men, the number I have down here Hospital Corps men, plus the number of Hospital Corps men at sawhich I put down as 680, will be 890 men short of those allowed by the present statute law. Do I make myself plain?

NUMBER OF HOSPITAL CORPS MEN ON HAND NOW.

Mr. Kelley. How many Hospital Corps men do you have right now?

Captain Williams. We have an operating force of 1.978.

Mr. Kelley. That is the number you are using now when you have thousands of war-risk patients in your hospitals? You do me expect us to pay for those patients out of appropriations for the Navy, when you are collecting that cost from the Veterans' Bureau!

Captain WILLIAMS. We have not got it yet.

Mr. Kelley. You have \$4.20 per patient for everyone you take in Captain Williams. But we have less than 3½ per cent of the elisted personnel of the Navy and Marine Corps in the hospital service.

Mr. Kelley. If you have 1,978 now, you will not need more that

1.600 next year.

Captain WILLIAMS. That is the total in the hospital service, but would have to have an additional number to make up the 3½ per callowed by law.

Mr. Kelley. You do not want to make up the 3½ per cent und

you need it.

Captain WILLIAMS. I only call your attention to the fact that this time we have included that 3½ per cent in the 15,000 and in the 50,000, and we have not carried out the present law making that number additional.

NUMBER OF HOSPITAL CORPSMEN REQUIRED.

Mr. Kelley. If you have only 1,900 men in the hospital service now, the basis of 100,000 men in the Navy, you certainly will not need re than 1,600 men next year with the greatly reduced personnel. think you have worked that out pretty well, although, perhaps, u have made it more than you should have done. You say you have 00 men in the hospital service now, in round numbers, and this **res** you 1,637.

Captain WILLIAMS. What I am talking about is the fact that I have

unted the 1,645 men in the 15,000.

Mr. Kelley. I know that.

Captain WILLIAMS. Unless the law is changed, this number, instead

being 15,000, would be 18,000. Mr. Kelley. We can take care of that. When we have approiated money for what you actually need, we will be very comfort-

TOTAL ENLISTED PERSONNEL AT SEA AND ON SHORE JANUARY 1, 1922.

Is there anything else?

Admiral Coontz. No. sir; except that I think the shore station uation should be cleared up. On the 1st day of January there re about 67,000 men afloat and 35,000 or 36,000 ashore.

Mr. Kelley. We will try to find out about that when the captain

pears on the question of the enlisted strength.

Mr. Byrnes. Did you cover the 28,000 men on shore?

Mr. Kelley. There was a figure given of 28,000 men on shore. Captain WILLIAMS. The number is 28,799 plus 4,062 in transit.

Mr. Kelley. That includes 8,000 replacements?

Captain WILLIAMS. Yes, sir; it includes men in training, general ail, and in transit. We had 82,000 first enlistments in the Navy t July.

Mr. Kelley. How many first enlistments did that 28,000 include; w many apprentice seamen, and how many were under training?

Captain WILLIAMS. About 5,310. Mr. Kelley. As of what date?

Captain WILLIAMS. January 1.

NUMBER OF MEN IN TRAINING.

Ar. Kelley. They were all under training? Captain WILLIAMS. Yes, sir.

dr. Kelley. They were in trade schools? Commander Leahy. Trade schools and training stations. There re 1,334 in special schools, and the 3,976 under training. There re a total of 5,310 men under training.

Ir. Kelley. What do you use 6,430 men at Hampton Roads for! colonel Roosevelt. That is the training station.

Ir. Kelley. You have 1.949 men at the Great Lakes.

laptain Williams. There are some at district headquarters.

Ir. Kelley. Give the number in training. aptain WILLIAMS. At this particular time?

[r. Kelley. At any time.

Captain WILLIAMS. At Hampton Roads, 2,872 were under thing. There were in addition in the trade schools, at that time, men. We had as overhead at the training stations 928 men and overhead at the trade schools of 54.

Mr. Kelley. You had 928 men taking care of 3,000 students? Captain Williams. We have had a very great many more that. At that particular moment we happened to have only 2 but we have had, and usually have, more than 2,872 in training the When the number gets down to that minimum we clear up the chead.

Mr. Kelley. You send the men out to the ships?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You can take out 500 or 600 men from there at time?

Captain WILLIAMS. Yes, sir.

OFFICE IN CHARGE OF ENLISTED MEN.

Mr. Kelley. Who is responsible for the number of men at a stations?

Admiral Coontz. The answer comes back to the Secretary o Navv.

Mr. Kelley. I know that he is at the head of the whole thing who has charge of the shore establishments of the Navy.

Colonel ROOSEVELT. I have as much to do with it as anybody

Mr. Kelley. But there is somebody under you.

Colonel Roosevelt. There has not been anybody under this ad istration in direct charge of it. Since this adminstration came i some time about last August, Captain Willard was put in chargan aid to the Secretary. He was appointed aid to the Secretar charge of navy yards. His functions, however, are not adminitive, but are simply advisory. He will present plans or check u things; but all the orders come directly from the Secretary or my

Admiral Coontz. Do you mean the enlisted force, Mr. Chairi Mr. Kelley. Who has charge of the enlisted men? Admiral Coontz. Rear Admiral Thomas Washington.

REASONS FOR PRESENT ESTIMATED COMPLEMENT.

Mr. Kelley. How do you know that you need that many methese stations?

Captain WILLIAMS. We have reports up there in the bureau. is something that it watched over by all of us, and it is certainly object of every man in that bureau to reduce that force to the lo possible limit. We have taken up several questions here and cussed them, and they have been gone into as deeply by the bureau we knew how to go. We have cut off every solitary man that a be possibly sent to sea. It is only after those efforts, which are gone all the time, and against the protest of people outside of the burin coordination with the efforts of those various officers away there and the various special activities, that the bureau finally deto leave those men whom you see here. We have minute reports who they are, where they are, how long they have been there, what they are doing. That matter is the subject of the most con-

and minute study of the entire enlisted branch of the Bureau of favigation. That is something that goes on constantly, and we are here primarily to see that these men on shore duty are reduced to the minimum. Before you can thoroughly understand these figures refere you can pick any different men and hold them up, you have to admit certain general conditions which affect this problem tou have got to realize that you can not ship men, trained men and intrained men, as you do material. If you look back upon the time for the last three years you will see that we have discharged enlisted men above the number and have then enlisted men in excess. You will see that each one of these peculiar elements enter into the enlisted

personnel, and that it has its bearing on this force ashore.

Now, let us suppose that you have a standard number of average rained men, which you have not got and which you will not have mtil things settle down, and you would not require these 980 men at Hampton Roads. You would not be required to be training tortedo men all the time, but as long as you enlist men one day and lischarge them the next, you must keep these training activities oing. That is what accounts for so much of these activities on hore. We have investigated as minutely as we could the duties of hese people, man by man and place by place, and this is the result. Mr. Kelley. Is there anybody in your department who visits these laces and who looks into the conditions for himself? You simply have the reports, do you not? The men from whom you get the eports are interested in having these men continued on the job.

Captain WILLIAMS. Not at all; wherever we suspect that there is be possibility of a change, we make it. We send a board of officers, be being from Operations and one from the Bureau of Navigation.

nd they go into the duties of these men.

Mr. Kelley. Is it your experience that every man you cut off is moved under protest?

Captain WILLIAMS. Absolutely.

Mr. Kelley. Of course, they are human. When you rely on those

eports it does not signify anything at all.

Captain WILLIAMS. We do not rely on such reports alone, but we bely on the reports plus the verbal contact that we have with the ficers in charge and the personal inspection that is made from time by officers of the bureau.

Mr. Kelley. Now, if during the coming year the element of traing should develop to be a little less than required heretofore——
(Captain Williams (interposing). Let us start with that assumpon, but before reaching a conclusion——

REDUCTION OF TRAINING SCHOOLS.

Mr. Kelley (interposing). You intend to practically close up a of stations, do you not, this coming year?
Captain Williams. We will have to.
Mr. Kelley. Including training schools?
Captain Williams. We will have to.
Mr. Kelley. There is no use in keeping them up.

aptain Whiliams. You say there is no use, but we have got to it if the 65,000-men program goes through.

Mr. Keller. With the reduced Navy you are going to keep all those stations in nothing more than a cold-storage condition.

Captain WILLIAMS. That is true.

Mr. Kelley. Will not that make a considerable difference?

Captain Williams. All of that has been arranged under the list that we are talking about. You know what took place at the Great Lakes, and you know what took place at Hampton Roads. In all this place we have allowed only 280 caretakers to look out for all that property. You remember that six months ago we were told to let them fall down. Those were the instructions we got from the Naval Affairs Committee. They told us to let the property fall down and let the plumbing deteriorate. Now, they are talking about turning it over to the Veterans' Bureau. You have got a contain number of men in the Navy, and you are talking here, purely as a mathematical proposition, about reducing it to 65.000 me. Now, you are going to close the training stations and, perhaps, the trade schools. How are we going to reduce? Which method will Are we going to have 65,000 men on July 1, 1923? In that case we will, of course, have to begin recruiting very soon. We will have to open training schools for the new recruits, and we must figure on training in trade schools after the 1st of July. follow the method of allowing the number to fall off as discharge come about, so that we will have an average of 65,000 men for the year as we did two years ago, when we reached an average of 12000 men? If you are going to have an average of 65,000 men through out the year, you will have more than than on the 1st of July, but on the 1st of July, 1923, you will have very much less than 65,000. If we were going to do it that way, we would not need to do any recruiting, perhaps, until November or December, but at that time would start recruiting, and we would have to start the trade school as the new men came in.

Mr. Kelley. In answer to your question, I would expect the escient Secretary of the Navy to work out the best and most economical system under which to carry out the will of Congress and have strength of 65,000 men on the 1st day of July. Of course, the Secretary of the Navy is under some difficulty in doing that, because this bill probably will not become a law immediately, even after passes the House. Therefore that is a question tha you will have to consider. I think we had better leave that particular question under take up the matter of the expiration of enlistments, so that we

may know exactly how they will go out.

REDUCTION OF SHORE-STATION ACTIVITIES.

Admiral, I think you had some particular method in mind for

reducing the shore-station activities.

Admiral Coontz. We have reduced certain stations, and if the Nay should by any chance be reduced to 65,000 men a number of shor stations would probably be closed. You would have a limited saying on account of the shore stations, but I agree with what Captain Williams says in regard to that; that is, that it will require a last to get rid of these men before the 1st of July. Then, on the 2d day of July we will have to commence recruiting, and the green may who are recruited will have to be trained.

Mr. Kelley. I understood Captain Williams to state the other ly that these men who have been in the Navy are standing around aiting to be reenlisted, and you will not have to train them at all. Captain WILLIAMS. You misunderstood me. These men are standg around the recruiting stations waiting to see what will happen fore they reenlist.

Mr. Kelley. That is practically the same thing. Captain WILLIAMS. These are trained men.

Mr. Byrnes. What do you mean by that statement?

Captain WILLIAMS. Let us suppose the case of a machinist, who as been brought from home at Government expense and trained in a overnment trade school, and he goes aboard a ship. At the exiration of his four years' enlistment, he goes out into civil life, and nere are a number of those men who are lying around the recruitag offices refusing to reenlist until they find out what is going to appen to the Navy personnel.

Mr. Kelley. How does that differ from what I said?

Mr. Byrnes. Why should they hang around to see what is going happen to the Navy personnel?

Secretary Denby. They may think that they will have a chance

or promotion, better pay, and that sort of thing.

Mr. Byrnes. I can see their reason for standing around waiting n account of the matter of pay, but I did not understand the other art of your statement to the effect that they were standing around see what would happen to the Navy personnel.

Captain Williams. In the matter of pay, promotions, and every-

ning else.

DISTRIBUTION OF PERSONNEL BY CLASSES.

Mr. Kelley. Captain Williams, I would like to have you study retty carefully the distribution of the personnel of the Navy by asses. If there is to be a reduction, of course, it should not all be com the bottom, but it should come all the way down. I should ke to have you work that out pretty carefully.

Captain Williams. I have studied that pretty carefully, and have

me ideas on the subject.

Colonel ROOSEVELT. There have been two full surveys made of at question, and, in addition to what Captain Williams has said, ere have been at least two other officers who have been making rsonnel studies.

Mr. Kelley. With the new situation, and with the taking out of ese old craft, there will be some further surveys to be made. This Il be a wholesale job requiring a resurvey, following the scrapping so many battleships and other craft.

WEDNESDAY, MARCH 15, 1922.

Mr. Kelley. Admiral Coontz, you were going to have an appornment of the 50,000 men prepared.

Admiral Coonty. The Secretary has not had time to go over it, r. Chairman. He has been before the other committee, and he has d to have it postponed until he could get around to it.

Colonel Roosevelt. The rough draft is ready, but the Secretary has not had time to go over it.

Mr. Kelley. I thought it would be helpful to us to have it be

fore us.

Admiral Coontz. It will be submitted as quickly as possible.

Mr. Kelley. We have with us this morning the Assistant Secretary of the Navy, Admiral Coontz, Captain Williams, and their assistants. I think we will hear Captain Williams first.

Captain Williams, how many men have you in each rating, be ginning with the highest enlisted rating in the Navy and going right

down to the lowest?

NUMBER OF ENLISTED MEN ON HAND IN NAVY BY RATINGS.

Captain Williams. Chief petty officers, permanent, 8,420; chief petty officers, acting, 3,112; petty officers of the first class, 12,123; petty officers of the second class, 10,865; petty officers of the third class, 10,172; firemen of the first class, 3,827; firemen of the second class, 5,528; firemen of the third class, 7,522; nonrated men, first class, 12,248; nonrated men, second class, 15,072; nonrated men of the third class, 773; cabin stewards and cooks, 778; wardroom stewards and cooks, 591; steerage stewards and cooks, 102; ward officers stewards and cooks, 201; mess attendants, first class, 1,607; mess attendants, second class, 1,060; mess attendants, third class, 1,117; making a total of 95,118 as of March 13, 1922.

Mr. Kelley. How could you get this up so close to date?

Captain Williams. I do not say it is so close.

Mr. Kelley. That is the date on which you prepared this paper! Captain Williams. That is the date on which we prepared this paper.

Mr. Kelley. It was prepared upon what data?

Captain WILLIAMS. It was prepared upon the best data available. Mr. Kelley. How recent?

Captain WILLIAMS. It was prepared from data that we have in the office up to date.

Mr. Kelley. You would naturally be behind on promotions that

were made on shipboard!

Captain Williams. We have a technical word which we call "lag". It means that we can not be absolutely up to date, not only in the matter of promotions but in other ways.

Mr. Kelley. How far behind will the office down here be?

Captain Williams, I should hate to estimate, because it would be a very rough guess for reasons that I explained the other day.

Mr. Kelley. A couple of months?

Captain Williams. It might be in some cases more than that, and in some cases it might be absolutely up to date. The character of the data is such, of course, that it is based largely upon reports sent in by mail, and the more widely scattered the force the greater the variation you must allow for it. That is what we call "lag," but this statement, subject to the "lag," is as accurate as any, or more accurate than we have ever had before.

Mr. Kelley. Do you know how many enlistments expire in each of those ratings?

MEN DISCHARGED, DESERTED, RETIRED, DEAD, 1918, 21.

Captain WILLIAMS. I have data covering the expirations of enlistnts. As for the expiration of enlistments for the fiscal year end-5 June 30, 1923, I have it in several different ways, but I see I be not got it in the way you want it. You want the expirations ratings?

Mr. Kelley. Yes. My recollection is that that is a very difficult

ng to compile.

Captain WILLIAMS. Yes, sir; it is difficult. We have compiled it months, for July, August, etc., up to June. This shows three-year istments, four-year enlistments, expirations of second-year enlistments, minority, etc. That is tabulated, but I have not got it by ings.

Mr. Kelley. Have you the number of enlistments of two-year men,

ree-year men, and four-year men?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. How many four-year enlistments are there now in the

ivy! Have you that information?

Captain Williams. Yes, sir. I want to get this part very acrately, because the foundation is very important for the structure. Mr. French. I wonder if the expirations of enlistments would run proximately according to the number of men in each one of those isses?

Captain WILLIAMS. No, sir; I do not think so.

Mr. Kelley. The long enlistments are in the upper ratings,

obably

Captain WILLIAMS. Perhaps so and perhaps not. I think we would dy lead ourselves into false conclusions if we adopted any averce. I would like to show you this table that we have gotten up. Mr. Kelley. Suppose you go ahead in the most illuminating way to know how, and if you do not throw all the light upon the subct that is desired, we can ask for more.

Captain WILLIAMS. Meanwhile, perhaps this table would be interting to you. This is the most complex piece of statistics we have er produced. That gives them by fractions. The point I would be to call attention to in that table is that it includes not only pirations of enlistments, but it also includes actual discharges of the causes, deaths, desertions, etc., and that is the history of e enlisted personnel as far as our records have been able to reach

Mr. Kelley. I think it is a fine table, and we will put it in the cord. This is a table showing the losses by months from various uses for 1921.

Captain WILLIAMS. It is very conservative and has been carefully ecked. I do not think you could do better than to have that table inted.

(The table referred to is as follows:)

Men separated from the naval service from November 11, 1918, to December 31, 1921.

. Di char		rted.	Retired.	Dead.	Td
Nov. 11 to Nov. 30, 1918	185	536	. 13	628	_
1919		, 537	142	1,000	1
	680 12	,777	51	681	1
	360 8	013		500	7
Total		, 963	289	2,809	10
		, 000		2,000	
	D. char	is- ged.	Deserted.	Retired.	De
1918.	<u>`</u>				
Nov. 11 to Nov. 30.	' 1	, 283	100	0	
December	6	902	436	13	
		,			
1919.		1			
January	13	, 830	597	9	
February		, 394	737	24	
March	13	, 970	607	12	
April		, 902	683	12	
May	7	, 863	836	14	
June		, 798	812	16	
July	17	, 952	710	13	
August	24	,027	831	6	
September	25	, 883	741		:
October		983	963	6	
November December		2, 461 3, 826	985 1, 035	6 9	
1920.			:		
January	4	. 662	998	7	1
February	2	2,753	765	3	1
March		, 753 , 448 2, 816	882	6	
April		2, 816	804	5 6 5 3 3	
May		. ysz	682	6	!
June		, 828	937	5	:
July	4	, 521	917	3	
August	5	, 746	927	5	1
September		, 688	1,058	3	1
October		2, 547	909	3 2	1
November		668	1,053	3	1
December		, 021	2,945	3]
1921.	· · ·				ı
January		3, 824	1, 413	4	
February		, 412	1, 141	1	1
March		, 130	696 626	2 5	
April		3, 511	494	. 6	1
June		3, 384 7, 889	630	. 6	
July		i, 859 i, 194	663	5	
August	! }	270	666	, a	İ
September	;	5, 621	518	7	1
October		3, 078		ģ	. 1
November		949	379	10	
December		3, 098	328	5	
Total	289	2, 284	30, 863	289	ī

SUMMARY OF LOSSES BY DATE OF RECEIPT IN BUREAU, 1921.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Ang.	Sept.	Oct.	Nov.	Dec.	Total.
d	1,413		698	626	494	630	663	666	518	457	379	328	8,031
ble	786	388	239	460 12	915	6,069	4,063	4,233 254	2,708 158	1,420	773 65	962 29	23,016
J	6.4	34	24	15	51	31	52	101	54	57	39	46	568
	568 824	1,518	1,647	287 807	312 532	126 251	160 370		72 308	281	40 183	45 210	2,858
**********	316	441	717	587	464	281	402	455	386	336	283	318	4,986
	228 354	299 402	478 287	338 291	173 266	143 235	110 242		175 370	164 212	236 161	181 198	2,746
	1	202	4	2	0	200	3	1	0	0	101	130	14
	353	2 410	5,272	657	579	719	414	3,008	1,387	392	157	4,102	20,652
d	252	14	9,212	54	81	31	21	9,000	2	8	11	7,102	499
***********	64	1 59	84 84	5	6	38	5 29	28	38	23	10 24	5 21	83 500
			-	-	90	-	-	-		-	_	-	_
otal	5,305	8,613	9,914	4,186	3,924	8,558	6,891	10,000	6,184	3,567	2,362	6,452	75,956

DESERTIONS BY DATE OF RECEIPT IN THE BUREAU, 1921.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	8 129 240 394	92 305 204	73 130 166	6 80 83 121	5 61 53 107	11 75 41 185	90 48 200	1 118 42 203	7 85 32 134	8 95 12 143	3 62 17 107	2 60 29 99	1,020 1,012 2,063
otal	771	607	372	290	226	212	342	264	258	258	281	170	4,159

SUMMARY OF LOSSES BY DATES OF RECEIPT IN BUREAU.

	19	119		1920												
	Nov.	Dec.	Jan.	Feb,	Mar.	Apr.	May.	June.	July,	Aug.	Sept.	Oct,	Nov.	Dec.		
R	985 9,628 1 887 45 44 716 232 180 402 8 440	1,035 5,910 1 916 42 8 605 281 191 394 22 382	898 2,762 295 43 13 544 265 88 239 11 372	765 1,353 104 35 12 389 180 97 323 4 233	882 1,386 80 56 12 652 386 169 439 2 2222	804 1,073 74 58 12 514 276 189 388 4 180	682 1,243 45 51 11 577 228 194 362 4 - 208	937 3,388 54 63 22 439 213 142 302 4 226 37	917 3,143 135 72 132 226 154 140 276 1	927 4,286 123 47 249 257 178 87 354 1 112 52	1,058 2,151 62 58 256 244 189 191 353 3	909 1,025 61 60 317 225 183 174 338 2 85	1,053 935 56 53 348 231 234 176 353	1,021 816 57 57 442 310 217 329 394		
	25 64 6 36	64 9 42	25 5 7 27	22 1 3 146	39 5 6 162	47 1 5 78	57 2 6 54	37 1 5 27	50 2 3 20	52 5 36	84 1 3 26	77 3 36	131 2 21	189 39		
tal	13,634	9,923	5,594	3,667	4,498	3,703	3,724	5,860	5,470	6,714	4,775	3,495	3,744	4,008		

asive recruiting.

SUMMARY OF DESERTIONS BY DATES OF RECEIPT IN BUREAU, 1920.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Total.	Nov.	Dec.
(all kinds)	13 86 226 228	7 53 242 145	12 87 217 203	1 85 249 151	9 80 157 153	9 92 199 219	5 94 171 245	8 112 193 204	11 108 201 268	8 83 204 187	83 880 2,059 2,003	14 103 233 218	8 78 239 187
tal	553	447	519	486	399	519	515	517	588	482	5,025	568	512

Mr. Kelley. You can put in your estimate for 1923 based upon any definite number of men, I suppose, in the same manner?

Captain Williams. Yes, sir.

Mr. Kelley. Based upon a certain date and brought down to a

certain date?

Captain WILLIAMS. With this difference, that that table there is all history, and our estimates are part prophecy. That is the first time we had the actual facts; and, I think, that runs back to 1918.

Mr. Kelley. You have given us here a total of 95,118 men in the

Navy by ratings on the last available date?

Captain WILLIAMS. Yes, sir.

ESTIMATED NUMBER OF MEN THE NAVY WILL LOSE IN MARCH, APRIL, MAY, AND JUNE, 1922.

Mr. Kelley. Now, how many men for all classes do you estimate

you will lose during the month of March?

Captain WILLIAMS. That is another question; and I thought you started on the expirations of enlistments. This is not the same thing. I gave that as 2.175 for the month of March; for April, 2.271; for May, 2.448; and for June, 2.544.

Mr. Kelley. That brings us up to the 1st of July?

Captain Williams. Yes, sir.

Mr. Kelley. Let us go right along with the next year by months.

Captain WILLIAMS. I am sorry I have not that. Mr. Kelley. You did not tabulate that at all?

Captain WILLIAMS. With some limitations—the further you go the less valuable the predictions. The predictions for March and April have a certain permanent value; but, when you go to September. October, and November, the prediction gradually decreases in value until it is almost valueless.

Mr. Kelley. Of course, you know how many expirations there are

in each month right along?

Captain Whiliams. Yes, sir.

Mr. Kelley. You know about what losses there will be from other causes each month?

Captain WILLIAMS. No. sir.

Mr. Kelley. Based upon your experience?

Captain Williams. No, sir: that is where we have fallen down for a long time. That is the important part of it. You have expirations of enlistments as one type of loss in the personnel; then, you have discharges for inaptitude: you have discharges for undesirability: you have bad-conduct discharges; you have dishonorable discharges, you have medical surveys; you have men on furlough, and you have men who die.

Mr. Kelley. Is this what you are saying now, that the discharges for causes other than expiration of enlistments will be less, because you get out of the Navy the undesirables in the early months, or is there a constant factor of undesirability even in the same body of

men ?

Captain Williams. Like all percentages, a percentage by months would be of little value: a percentage based on two months would be a little better, and as the time increases the percentage would probably be better. Now, with normal conditions, and given a Navy of

10,000 men of average classes, ages, and types, in a little while, or a year or two years, you could determine the average, perhaps, of the one of those peculiarities, or the monthly average on each one those questions you have asked; but in the last two years we have that that standardized number or standardized type, and I am retty well convinced that we should approach those averages with the very greatest caution and with the very greatest possible qualication. That is the reason I hesitate to give those figures. It is a sary rough prophecy, and I understand why you want it.

Colonel Roosevelt. Does the figure you have already given reprent the gross loss, or have you taken into account reenlistments? Captain Williams. I have considered 50 per cent of reenlistments.

ur assumptions are very numerous.

MONTHLY ENLISTMENTS.

Mr. Kelley. In order that the information we get may have all the value possible, I will ask you this: How many enlistments will there be by months, starting on the 1st of July?

Captain Williams. This last figure I gave you brought the total own to 85,000. Now, assuming that we have the number at 85,000, can give you the figures from July 1, 1922, to July 1, 1923.

Mr. Kelley. All right; go ahead.

Captain Williams. This will run regularly, July, August, Sepumber, October, etc., and the numbers are as follows: 2,492, 2,504, .450, 2.562, 3,125, 3,376, 2,399, 2,347, 2,145——

Mr. Kelley (interposing). What was the figure for January? Captain Williams. Two thousand three hundred and ninety-nine; or February, 2,347; for March, 2,145; for April, 2,282; for May, ,134; and for June, 2,038.

Mr. Kelley. These are based upon expirations for all other causes? Captain Williams. This takes into account a lot of assumptions. Ve have estimated the number in service for each month, and we ave figured out the number of expirations during that month. We ave assumed that 50 per cent of those men will reenlist, and we have hen applied the losses from other causes, and the algebraic sum of hat is the total loss. That is quite different from the same figures, ithout qualifications, that we were speaking about. The point I want to give you is the fact that the losses include 50 per cent of centilet ments.

Mr. Kelley. These figures now include the expirations, and they over your best judgment as to other losses?

Captain WILLIAMS. Yes, sir.

TOTAL ENLISTMENTS FOR FISCAL YEAR 1922-23.

Mr. Kelley. What do they total?

Captain WILLIAMS. Thirty thousand eight hundred and seventy-our. That is for a year.

Mr. French. That includes only the reenlistments, without any ther additions. Does it include the reenlistments?

Captain WILLIAMS. Yes, sir.

Mr. French. Reenlistments, but not new enlistments—is that ight?

Captain Williams. It includes 50 per cent reenlistments.

Mr. French. But no new enlistments?

Captain WILLIAMS. No, sir.

Mr. Kelley. Does this include 50 per cent reenlistments right from the beginning of the table?

Captain WILLIAMS. Yes, sir.

Mr. French. But that does not include reenlistments from now until the 1st of July, or the table you gave us first did not?

Captain WILLIAMS. The table I gave at first is exactly the same. It

follows the same rule.

Mr. Kelley. This table showing the losses during a year and four months, and during the balance of this year and all of next year, shows approximately 40,000 men, and it includes the losses from expiration of enlistments and other causes, less reenlistments amounting to 50 per cent?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. So that, if you get back by reenlistments 50 per cent each month right along, the Navy would stand a year from next July at approximately 55,000 men?

Colonel Roosevelt. That is the net loss all the way through the

year, as I understand it, Mr. Chairman.

Captain Williams. 54,537 is our best prophecy.

Mr. Kelley. So you could reenlist half of those whose terms expire if you did not take in any new ones and the Navy would run down by the 1st of July, 1923, to 54,537.

Captain WILLIAMS. Within the limits of accuracy.

METHOD OF KEEPING NAVY AT AN AVERAGE OF 65,000 MEN.

Mr. Kelley. What would be your policy, Captain? Suppose you were given an average of 65,000 for next year, taking the Navy as you have it at this moment and desiring, of course, to work it out to keep it in the most effective situation, how would you go about securing an

average of 65,000 men after the 1st of July?

Captain WILLIAMS. May I reply to that by calling attention to the two most prominent ways of doing it, and, perhaps, the advantages and disadvantages of each? We want 65,000 men, speaking in round numbers, for the fiscal year 1923. There are two ways, perhaps, of doing it. One is by having 65,000 men on July 1, 1922, making up the losses that occur in 1923 and standardizing the quality of that personnel to the best of our ability. That is a problem the execution of which leads you into great difficulty, and the more thought I give the subject the more difficulties I find. We want 65,000 men on July 1, 1922, and the character and quality of our personnel at the present time is such that that seems the best way to go at it.

Let us say you open the gates for discharge and you encourage them in every way to leave the service, the men we have now, let us call it 95,000 in round numbers, and you get down to 65,000 men on July 1. That is a supposition. Let us say we have succeeded in doing it, that enough men will leave the service to bring it down to 65,000 on July 1: it is fair to suppose that the men who will go out are in the lower ratings, the men who have been there the least, the men who have less interest, who have less ties to the service: the higher ratings, the older men, the trained men, perhaps, will tend to remain; those men are

who have, many of them, been in the service long years, and it d be difficult, and perhaps undesirable, to run the Navy composed ely of those men.

ISABILITY OF USING MEN OF HIGHER RATINGS TO PERFORM WORK OCCASIONED BY DISCHARGE OF NEW MEN.

. Kelley. There would be some positions that would be rather for to their rank.

ptain WILLIAMS. I am coming to that. It would be too exive to start with, and for other reasons. Suppose we undertook ke that nucleus and form our personnel by reducing these men, itting them in lower ratings and by giving them work to do from h they in the past have graduated? I need not speak of the loss orale. There are other phases, too, which must be given the careful consideration.

there were certain obligations; that there were certain rights, 1 rights, but perhaps not legal rights, which they acquired by conduct, by good behavior, by faithful performance of duty, by all the things which have brought them where they are. I will so into the details of that because I think the committee knows complicated they are. It is not a question of referring the thing e comptroller, but it is a question of referring the thing to the himself. It leads you all through the right or wrong of recruit-romises, of vested rights, of experience, and all that sort of thing ou can readily see, without speaking any more of it, that we would a very large number of men who would have to be either sepal from the service or treated in a way which they would consider rinjustice.

r. Kelley. Let me put in one question right there, Captain. The ent pay rates expire on the 1st of July?

ptain Williams. Yes, sir.

r. Kelley. I suppose that as to the men in the higher ratings it d make a great deal of difference whether that pay were cond or not, or whether it were materially modified.

ptain Williams. It would make the greatest difference in the

r. Kelley. I figured the other day, after you had said that men waiting around the enlistment places, that possibly they were ing because of the fact that the question of pay had not yet been led.

ptain Williams. Perhaps so, that and other things.

r. Kelley. That would probably explain why they were waiting. ptain Williams. Partly, perhaps.

r. Kelley. By the way, you are not reenlisting for a shorter

od than four years, are you?

ptain WILLIAMS. No. sir; this question is a very important one. ose you have solved that problem? It will take time to do it, and ll be an unfortunate period through which we will have to pass. have got to start enlisting—

r. Kelley (interposing). Just before you discuss the other od—

ptain Williams (interposing). I want to finish this.

Mr. Kelley. You have not finished this one yet?

Captain WILLIAMS. No. sir.

Mr. Kelley. Of reducing it to 65,000 by July 1?

Captain WILLIAMS. No. sir. Suppose you reduce by July 1. have got down to 65,000. Now, you have got to start recruiting mediately.

Mr. Kelley. You have done that?

Captain Williams. You have got to start your training sch immediately.

Mr. Kelley. You said you have got to start recruiting imm

ately.

Captain WILLIAMS. Yes, sir.

AUTHORITY TO FURLOUGH MEN.

Mr. Kelley. Just before you start in on that, let me ask a q tion. Here is the authority of law under which the Secretar the Navy is authorized to grant furloughs, and I will read this so as to get it in the record:

The Secretary of the Navy is hereby authorized to grant furlough wit pay to enlisted men for a period covering the unexpired portion of their enements: Provided, That such furlough be granted under the same conditional in lieu of discharge by purchase or by special order of the department. Enlisted men so furloughed shall be subject to recall in time of war or nati emergency to complete the unexpired term of their enlistment, and shall in addition to the authorized number of enlisted men of the Navy.

You can not recall a furloughed man except in case of war; is t

right?

Captain Williams. I think you can recall him at his own requ I have considered that phase of it slightly, and I do not think t is the cure, but I am not prepared to say. The question I am spe

ing of is a very difficult question.

Mr. Kelley. I know, but if there were no other obstacles in way and you could furlough a man until you needed him, and t call him back to take the place of expired enlistments, or somet of that kind, you would not meet the obstacles you spoke of aw ago about starting up your recruiting and all that.

IMPRACTICABILITY OF FURLOUGHING MEN TO REDUCE SIZE OF NAVY.

Captain WILLIAMS. I have thought of that, but I do not bel it is practicable, and I think you are asking too much and gi too little.

Mr. French. Would there be any sort of pay for the furlous

Colonel ROOSEVELT. After they get settled in other business could not get them back.

Mr. Byrnes. You would have to assume they would not ge

any other business. I suppose, and that is the trouble.

Mr. Kelley. You would have no trouble under this of furlo ing your men; you could pick out your men under this prov could you not?

Captain WILLIAMS. I do not think we could do that: you

tainly could not do it without legislation.

Mr. Keller. Why not? Suppose you gave him to understand at while he was furloughed, at the same time he would not be alled back?

Captain WILLIAMS. I do not think the average man would take ay such contract, to force a man to go on furlough and tell him

ou would not call him back; he would get a job in civil life.

Mr. Kelley. Suppose you told him you would not call him at l, you could furlough him?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You were saying you had experienced some difficulty getting rid of particular men.

Captain WILLIAMS. Yes, sir.

Mr. Kelley. That the ones at the bottom would go and the ones the top might stay, but it seems to me under that act you have athority to pick out any you wanted and furlough them for the st of their enlistment.

Captain WILLIAMS. Indefinite furloughs without pay?

Mr. Kelley. Yes.

Captain WILLIAMS. And then call them back?

Mr. Kelley. At the same time telling them you do not intend to all them back at all.

Captain WILLIAMS. I think you make a bad situation worse.

Mr. Kelley. Why? For instance, you have here, Captain——Captain Williams (interposing). Let us take the principle of e furlough.

Mr. Kelley. Just a second until I get our minds together. You we here 8,420 chief petty permanent officers?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You might not want that many with a Navy of ,000, and under that act you would have full authority to furlough ose men.

Captain WILLIAMS. Without pay?

Mr. Kelley. Without pay, and notify them that you would not pect them to come back at all.

Captain WILLIAMS. That is the difficulty I am speaking of.

Mr. Kelley. And, then, you could pick out the ones in each rating at you did not need under the furlough system.

Captain WILLIAMS. That is the exact difficulty; whether you furugh them or discharge them makes little or no difference to the en.

AUTHORITY TO DISCHARGE MEN.

Mr. Kelley. Would you have authority to discharge outright? Captain Williams. Yes, sir; we have the legal right.

Mr. Kelley. Then the thing is as broad as it is long.

Captain WILLIAMS. There is not any difference, but the point is e have never discharged these men in the Navy except at their wn request or except as a punishment, and that is the law these en have had read to them every month.

Mr. Kelley. There is no trouble about getting the whole number own, as I take it, but the trouble is in getting down the number by ades, the proportion in each grade

ades, the proportion in each grade.

Captain WILLIAMS. I have more troubles to voice; I have not ished this first proposition.

Mr. Kelley. You would not have any difficulty in reducing the Navy to 65,000 if you let everybody go who wanted to go, but to keep your grades proportionate might be a little more difficult.

Captain WILLIAMS. No. sir: that is not the whole story.

Mr. Kelley. Well, give us the rest of it. Captain Williams. In the first place, a man's enlistment record, as a matter of pure legal right, contains the clause, "unless some discharged by proper authority." That has never been exercised with these men, except they have been discharged as a punishment, at their own request, or for bad conduct.

FURLOUGH OF MEN AT THEIR OWN REQUEST.

Mr. Kelley. You have furloughed men except upon their own request, have you not?

Captain WILLIAMS. We have not furloughed them except at their

own request.

Colonel Roosevelt. I am no lawyer, but this act says the Secretary, of the Navy is authorized to grant a furlough without pay. Now, I should think that word "grant" might be held by the courts as, not giving the Secretary of the Navy the right to impose a furlous. but that he would have to do it at the request of the individual, if he saw fit.

Mr. Byrnes. The trouble is the proviso says it shall be in lieu of

discharge.

Colonel Roosevelt. An individual might have requested a discharge, and the Secretary of the Navy might be unwilling to give the discharge, because that severs him completely from the Navy. How ever, he might be willing to grant a furlough without pay, which still leaves the Navy the option of calling the individual back in time of war.

Commander Hill. And that act was passed before we entered the war, and undoubtedly that was the intent of it. It was the act of

August 29, 1916.

Colonel Roosevelt. I think that is the situation. You see you get rid of him for good and all. Suppose we thought there was possibility of a war within a year and some of our important petty officers wanted to be discharged to go into business, the Secretary of the Navy might say. "No: I do not want to discharge you; might want you when a war begins, but I will give you a furloud which will let you engage in that business, and then if a war come we will call you back." That is my interpretation of the situation, although I may be wrong.

Mr. Kelley. There is no question as to the authority of the Nav

Department to discharge outright, and this would be a milder method than discharging, so I am inclined to think that might be construct as giving authority to the Secretary to act independently of application, but of course lawyers differ just as much as nav

officers, and that is going quite a little.

Captain WILLIAMS. I was only suggesting many of these thing so that you might get the idea that after all this figuring is done may be necessary to design some personnel legislation that will per this thing into effect in the proper way. You do not want to throw these people out, men who have been 15 and 20 years in the service and you do not want to force them on the Naval Reserve against beir will. What personnel legislation we may need remains to be

teen, and this is very preliminary.

Mr. Kelley. We can take care of that on this bill if it involves a eduction. Under the rules of the House a reduction in the number offices or men can be provided for an appropriation bill.

Captain WILLIAMS. But this is not exactly a case of reduction; it

a question of how the reduction shall be carred out.

*Mr. Kelley. I know; but all collateral propositions can go with he main proposition of reduction.

NUMBER OF MEN NECESSARY TO BE KEPT IN TRAINING TO REDUCE NAVY.

Captain WILLIAMS. I think the next thing you wanted is what happens next. We are always talking about proposition 1, 65,000 men in July 1, and we have not departed from that.

Mr. Kelley. You have finished the first proposition by getting

id of them between now and July 1.

Captain WILLIAMS. No, sir; I have not finished this. I have put down in the form of a note and I will ask to read it, and maybe it ill save time. Assuming that we will be at a strength of 65.000 men to 1st of next July, and that the voluntary discharges to reach this umber would be about 21,000 men, all to come from the 1923 fiscal ear discharges, there would still be a loss by expiration of enlistent, in 1923, of 20,000 men. In addition to the foregoing, it is timated that the losses during that year from other causes than piration of enlistment would be about 8,000 men, or, in other ords, there would have to be a total displacement of 28,000 men. ssuming in round numbers that there would have to be a replaceent of 2,400 men per month—I do not like that word—and that ch man would spend at the training station two months plus two beks in travel time in reaching the training station after recruit**g** and in traveling from the training station to his ship, we would Lve to have an average of 6,000 men at the training stations throughit the fiscal year. Is that plain?

Mr. Kelley. No. Six thousand men graduated every two months

buld give you 36,000 men.

Captain Williams. I have accounted for 28,000, and that would 4.500—no; that is wrong; we have not allowed for the two weeks. Mr. Kelley. Would that throw it off that much?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Let us cut the two weeks off and give them two

onths there.

Captain Williams. They would not get warm in that time. Estiating an additional 1,000 at the training stations as a permanent rsonnel for training purposes and for recruits for the fiscal year an rerage of 7,000 men per month at training stations, which is in ldition to the 15,000 which have been allowed by operations in the .000 navv.

Mr. Kelley. You will get this into the latest work of fiction if

Captain WILLIAMS. No; I am digging it out. To state this probn another way, if this were the first cut we had had in three years, would be a different problem, but cut after cut has taken place since demobilization. Now, we are dealing with personnel not dealing with material. What is the result of this thing? 'year we have been struggling along on something less than 100 Now, call it 100,000. Over 50 per cent of those people are in enlistment. That means a great many things, but it means an other things that 50,000, or 50 per cent of those people go out at same time, or almost at the same time. I think that we must a between now and July 1 in the fiscal year 1923 forty-odd thou men; that is, for the fiscal year 1923, and you can not take off 40 men and assume you are going to take those off the 96,000 and others left.

Mr. Kelley. You have not run the training schools very extens this year, have you? You have only had two or three thousar

training?

Captain WILLIAMS. Yes.

Mr. Kelley. And you consider that enough with 100,000 men Captain Williams. That has nothing to do with the 100,000 m Mr. Kelley. Just answer me directly. You have enough attraining schools with 100,000 men?

Captain WILLIAMS. That has no connection with it.

NUMBER OF MEN LEAVING NAVY DURING PAST YEAR.

Mr. Kelley. How many men have left the Navy during this year?

Captain Williams. At training schools—

Mr. Kelley (interposing). Never mind the training schools. I many have left the Navy during the last year?

Captain WILLIAMS. That is a direct relative of the \$77,000,000

pay of the Navy.

Mr. Kelley. How many men have left the Navy during the

Captain WILLIAMS. It has nothing to do with it, but I can giv

to you.

Mr. Keller. Well, give it to us. I remember it was estimated 40,000 at least would leave after the 1st of July during this curvear. When you were here last time and we were making the obill it was estimated that there would be something like 40,000 pirations of enlistment, and then there would be quite a numadded to that. If you can take care of forty-odd thousand exptions of enlistment and have only 2,000 in the training schools, wis there in the situation next year that requires you to have a enormous training as you are talking about?

AVERAGE NUMBER OF MEN ON HAND IN NAVY DURING PAST YEAR.

Captain WILLIAMS. Let us go back to the time when we started these statistics, and you know they did not exist before 1918, did the Colonel Roosevelt. Captain, may I ask you to draw the chairm last point out a little more clearly? On July 1 of last year did not have 116,000 men in the Navy?

Captain Williams. On July 1 of last year we had the relic of

was left of an average of 120,000 men.

Colonel Roosevelt. That was 116,000, as I recall. Therefore, we we gone down 20,000 men.

Mr. Kelley. No; you were authorized to keep 106,000.

Colonel Roosevelt. Yes; but we had to average it, so we are only

Mr. Kelley. You see, all you had to do was to come down from 16,000, as I recollect, on the 1st of July, to 106,000 during the year order to keep your average right, and as there were only 10,000 n involved there, it would not change this training-school situaion.

Colonel Roosevelt. I think it would materially. As I understand b, our cuts have been going along in this way: At the first of the secal year we were met with a bill from Congress saying that we aust have only an average of, let us say, 100,000 men during the ext year; we have not attempted to reach that figure for the first f the coming fiscal year, but we have gone down gradually over the ntire year, so that whereas we had 116,000 to start the year, at the and of the year we would have 90,000 in order that the average aight be the figure Congress set. Now, that materially lessens the number of men we would have in our training stations, and, you ee, we have now gotten down to the point where, if we try to have, t us say, 90,000 men on the 1st of the coming July, we would have o cut down to the all-inclusive figure of 50,000 at the end of the war if we were going to run out in the same way, and the allaclusive figure of 50,000 would change the figure, assuming that our figure on shore stations is correct, as to the number of men we ould have in the fleet afloat at the end of the coming year from),000 to 35,000.

Mr. Kelley. Here is what you have evidently done during the st year: You have made up your list by recruiting those that have ready served in the Navy and that is what you are doing next year. Captain WILLIAMS. Of course, to a large extent.

Mr. Kelley. That eliminates the training school proposition

most wholly except for the few boys you need to scrub decks.

PERCENTAGE OF FIRST ENLISTMENTS, 1920-21.

Captain WILLIAMS. No. sir; that is not all. Mind you, the propotion I am talking about-you may call it scheme 1-of getting wn to 65,000, is a scheme we have not tried, and ever since 1919 a have suffered from the application of the other system to our ductions. Now, the result of that is perfectly apparent. In 1919 e percentage of first enlistments was 26; in 1920, 31; and in 1921, : and it would take a very careful analytical study to show why at is the net result of these cuts.

DISTRIBUTION OF RATINGS IN DECREASING NAVY.

Mr. Kelley. I think we have the general principles and the prinpal difficulties, but what I would like for you to submit, Captain, this number is established at 65,000, how are you going to disibute them in these ratings?

Captain WILLIAMS. This is the best I can do under the circuminces:

ief petty officers (permanent appointment) 6,762

Mr. Kelley. And acting? Captain WILLIAMS. I left that out.

Petty officers, first class10!
Petty officers, second class
Petty officers, third class
Firemen, first class 3.
Firemen, second class
Firemen, third class2
Nonrated men, first class11,
Nonrated men, second class10.
Nonrated men, third class
Cabin stewards and cooks
Wardroom stewards and cooks
Steerage stewards and cooks
Warrant officers, stewards, and cooks
Mess attendants, first class
Mess attendants, second class
Mess attendants, third class

Total 65

That is provisional and for the moment is the best we have.

CHIEF PETTY OFFICERS REQUIRED FOR UNITS OF 190,000 MEN AND 65,000

Mr. Kelley. You remember when Captain Leigh was down your place, do you not?

Captain WILLIAMS, Yes, sir. Mr. Kelley. On the basis of 190,000 men, Captain Leigh estimate that you would need 7.439 chief petty officers.

Captain WILLIAMS. Seven thousand?

Mr. Kelley. Yes, sir; on the basis of 190,000 men in the Xa This was November 1, 1919. You have 8.420 chief petty office plus 312, or 8.732 chief petty officers, with 100,000 men in the Nat Captain WILLIAMS. There is a difference of opinion. We can t

at it from half a dozen different points of view. In the first plan we know the difference. We know that is not entirely dependent the 65,000 and the 190,000. You see, we know there is another e ment which you and I have spoken of before. It is dependent. course, on the service they are engaged in, the size of the ship, various other elements besides the 190,000.

Mr. Kelley. They are about the same ships?

Captain WILLIAMS. I do not care to waste any time on that. Wh did you say that was?

Mr. Kelley. In 1919.

Captain Williams. In 1919, we were then struggling through t period of demobilization. The demobilization was still ripe. Web never in our lives been accustomed to handling and producing stistics, these minute personnel statistics. I will leave it to you stinal answer to the proposition. I think Captain Leigh was m taken. Captain Leigh might turn up and say I am mistaken. I have machines we use for getting the statistics, which he did have.

Mr. Kelley. Is not this the explanation of it, Captain, that duri the war you had to have on all of these various ships of the Xa large numbers of men in the higher ratings, and then, when the ships were discontinued, like the Overseas Transportation Servi ad all that, you found yourselves with these men in the higher atings on your hands, and instead of letting them go in proportion henever you made a reduction you made it at the bottom; is not nat the explanation?

Captain WILLIAMS. That is partly the explanation. Mr. Kelley. Is not that the real meat in the coconut?

, Captain Williams. No, sir; that is not all of it. Like all personnel roblems, there were a dozen reasons for it. Here is a memorandum in the subject—that is not what you want. When we demobilized—

Mr. Kelley (interposing). Let me say before you finish there that it a good strong allowance is made in these upper grades, which you have evidently done here-

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You do not think that is enough?

NUMBER OF CHIEF PETTY OFFICERS ON BASIS OF 119,000 MEN.

Commander Leahy. No, sir. This statement which Captain Wiliams has read is an actual complement of the vessels enumerated to e kept in commission and is based on the shore establishment which e read the other day. That is an actual count of the number of men equired, as near a count as we can get.

Mr. Kelley. Captain, do you hear what the commander is saying?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. That this is the actual number of places to be filled

v these men.

Captain WILLIAMS. That goes without saying. You have a table f the number we want, and the problem that I submit to you is the **ifference** between the two.

Mr. Kelley. I thought you admitted that the numbers in the upper

rades were excessive?

Captain WILLIAMS. Which numbers are you talking about?

Mr. Kelley. The numbers in the upper grades, that not only were hey excessive, due to the fact which I indicated a while ago—Captain WILLIAMS (interposing). We have not spoken of that;

re have not touched that subject. I might or might not. What we rere talking about was plan 1, to get down to 65,000 on July 1, and re said it would open the gates, you remember, and allow these en to go out and that the people who would remain would be in the

pper grades and that then they would be excessive.

Mr. Kelley. Here is what Captain Leigh said: Chief petty officers hat would be required on a basis of 119,000—the other I gave was 90,000—we are getting down to 119,000. Not only that, he claims hev were in the service on November 1, 1919. I think this is based n 119,000 men. I think probably the table is mistaken in that repect. There must have been more than 119,000 in the service on November 1, 1919.

Admiral Coontz. As you will remember, Mr. Kelley, we let everyody that wanted to go leave. We did not have men enough for the

hips to get away.

Captain WILLIAMS. You can not justify that. On the 19th of

lovember they had 12,000.

Mr. Kelley. I remember this very well. It sheds light on this ible. Your desire at that time was to keep these higher men, the men in the higher ratings, because wage conditions outside were much better than on the inside, and as a result of that you had run down in the Navy on that date to 3,000 chief petty officers, 7,000 of the first class, 7,000 of the second class, 5,000 of the third class, and mon, that there was a great shortage. Then, we increased the pay in order to correct that situation.

Captain WILLIAMS. I want to say that I do not believe much in the accuracy of those figures. Looking at them now, with the improved methods and all that sort of thing. I do not believe much in the accuracy of those figures, although those were the best available.

NUMBER OF CHIEF PETTY OFFICERS IN NAVY NOVEMBER, 1919.

Mr. Kelley. If you knew how many men in these different rating we had on the 1st of July, 1916, that would aid us.

Colonel ROOSEVELT. I think the captain has a memorandum of what men we had at the time Captain Leigh testified, based on that situation and count. I think that would help us to decide whether there had been a mistake made in Captain Leigh's testimony or not.

Mr. Kelley. This table, in the first column, gives the number in the service on that date and it amounts to 119,000, which talks pretty well with what Admiral Coontz said. The Navy ran down in the higher ratings where the skilled mechanics were lost.

Captain WILLIAMS. Here is the memorandum:

In the hearings on November 12, 1919, in connection with the pay bill of 1894, Captain Leigh submitted a table showing that there were 3,000 chief pety officers in the service: also certain requirements for various sized navel. These figures, according to Lieutenant Commander Soule, are based on estimates of a very vague character. They were so manifestly in error that a count was made as of November 15, 1919, and it was found that there were 12,668 chief petty officers in the service. We know now, after a most exhaustive study, that we require about 9,752 chief petty officers for a navy of 100,000 mea.

This is as of January 5, and has no reference to what I have just said.

REASONS FOR CHIEF PETTY OFFICERS LEAVING NAVY IN 1919.

Mr. Kelley. Does that say that there were 12,000 chief petty officers at the time Captain Leigh made this statement?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. I think Captain Leigh's statement is nearer correct.

Captain WILLIAMS. Maybe so.

Mr. Kelley. Otherwise, there would not have been any occasion for you coming down here and getting an increase of pay. That was the basis on which it was made.

Colonel Roosevelt. There is a question—who made the count!

Mr. Kelley. I know that we started in 1919 to readjust the pay because the number of skilled mechanics was not sufficient. That was in 1919 and it took us quite a little while to get it through. It was a difficult job, but we finally did get it through, and we based the whole argument—I made the argument at the time—to the House on the fact that there was a tremendous shortage of skilled mechanics. If you had had 12,000 chief petty officers at that time I would never have taken control of the bill.

Captain WILLIAMS. I have no more faith in 12,000 than I have in

any other figure.

Mr. Kelley. This figure is more apt to be correct?

Captain WILLIAMS. I am not prepared to say; I do not know. he statement that you make about the leaving of the highly trained en—the chief petty officers, mechanics, etc.—was discussed in the sarings for eight months.

Mr. Kelley. A long time.

Captain WILLIAMS. It was not based on that figure or this figure; was based on the most careful and long-continued study of the gures and facts. As you remember, I think that started in October, ad I think the bill passed in May. It was not dependent on any ae of these figures. The question of Captain Leigh's information, c., is so complicated and all that sort of thing that I can only ake this as our best estimate based on the complements of the ships lat we are contemplating.

Mr. Kelley. They had substantially the same ships. Mr. Byrnes. I would like to know whether you count the differace between 12,000 and 3,000—whose figures we can rely on? Did ou make a real count of the men after the estimate furnished by aptain Leigh?

Commander Leahy. This figure of 12,000 was furnished to me ▼ the statistician of the Bureau of Navigation, and this count was hade in November, 1919, and it was found that there was that num-

er of chief petty officers in the Navy.

Mr. Kelley. If you had told us that there were 12,000 chief petty fficers in 1919, you would not have had much show of getting an

acrease in the pay of these officers.

Captain Williams. The question of 3,000 or 12,000 chief petty fficers was not the question of the moment. It was a question that ras discussed in the Naval Committee from October until Mayot only the chief petty officers, but all the others. The fact that hey were leaving was wholly apparent to every man in the country t that time. It was not a question of the difference between these igures. At that time they were leaving just as fast as they could et out; they were perfectly crazy to get out.

SHORTAGE OF ENLISTED MEN IN 1919, DUE TO DISCHARGES.

Mr. Byrnes. If you had 12,000, before you must have had about

***0.000 ?**

Captain WILLIAMS. I should not wonder if we had. You have to ake into account that the 12,000, or whatever the figure was at that ime, does not represent a Navy of the size that we have now. It represented a Navy very much larger. The fact that they were gong out at that time was proved by the hearings that lasted six nonths.

Mr. Kelley. I understand that they were leaving.

Captain WILLIAMS. Was there any doubt in your mind that they

were leaving?

Mr. Kelley. If they had not been leaving, there would not have meen any chance of your getting the increase in pay, because that vas the motive.

Captain WILLIAMS. They left for the Shipping Board—the Ship-

ing Board invited them on our own ships.

Mr. Byrnes. You must have had a much larger number of men before that time.

Admiral COONTZ. They began to go all the fall and by herculen efforts we kept enough men aboard the ships on the 5th of February to shove them away from the docks.

Mr. Kelley. You remember that there was legislation about the

men so as to facilitate their discharge?

Admiral Coontz. Yes, sir.

Mr. Kelley. Because they had all been through the war and everybody said—I guess the naval officers and all, and they was wanting to go—if anybody wants to go, let them go. Then the Shipping Board's opportunities, as somebody said, were made to the skilled mechanics. I dare say that Captain Leigh's figures an absolutely correct.

Admiral Coontz. I do not know.

Mr. Kelley. And these figures you submit are probably wrong. Colonel Roosevelt. I do not believe so. I believe the figures submitted this morning are correct. I believe they were going out fast all the time, leaving all the time. I believe that 12,000 is neared correct; I believe the other figure is a mistake.

Mr. Kelley. If you had had 12,000, you would have had loads of

officers and you would not have had any-

Colonel ROOSEVELT (interposing). I was not here at the time.

Admiral Coontz. I went out to the Pacific on the 1st day of July, 1919, with the fleet and we took about half with us. We had begged and gotten the men to stay until we got the ships to the Pacific. We got them there. We went to the cities and received the welcome and all that until the late fall and then the men just went ashore by the hundreds.

Mr. Kelley. That is my understanding.

Admiral Coontz. And in December of that year I do not believe they had half their crews aboard.

Mr. Kelley. Our memories are in perfect accord.

Admiral Coontz. I know that we had a special conference in January to see what we could do to shove those ships away from the docks, because they would be lying there some six months.

Mr. Kelley. And we went ahead and we promised the boys, either directly or indirectly, that even though the bill were late in passing.

that we would make it retroactive?

Admiral Coontz. Yes, sir: and that fall and spring they began to

come back.

Captain WILLIAMS. Those figures are contained in the hearing, and they are repeated and verified by man after man.

NUMBER OF ENLISTED MEN IN NAVY BY RATINGS IN 1016.

Mr. Keller. How many men did you have in these different ratings in 1916? Have you that information?

Captain Williams, No. sir: I have not that data.

Mr. Kelley. You may furnish that information as of July 1, 1916, or some other date in 1916.

Captain Williams. We will furnish that.

Number of culisted men by pay grades in service June 30, 1910	5.
*hief petty officers	4, 136
'etty officers, first class	
'etty officers, second class	4, 671
*etty officers, third class	
Fremen, first class	
Fremen, second class	. 2, 969
Tremen, third class	3, 748
Conrated men, first class	7,500
Conrated men, second class	9, 471
Fonrated men, third class	4, 376
bin stewards and cooks	
Vardroom stewards and cooks	299
teerage stewards and cooks	
Varrant officers' stewards and cooks	
Tess attendants, first class	
Tess attendants, second class	
Tess attendants, third class	509
Total	54. 234

NUMBER OF MEN IN NAVY JULY 30, 1921, BY YEARS OF SERVICE.

Mr. Kelley. Have you a table showing the number of men in the hief petty officer rating who have served 8, 12, 16 years, etc.?

Captain Williams. No, sir; I do not think so. I think we have the number of men in the Navy that have served that length of time. This is not what you asked for, and it is not very recent. It shows a otal of 119,000 on June 30, 1921.

Mr. Kelley. You may give that.

Captain Williams. As of June 30, 1921, the number who had served 28 years and over was 94; 24 years and less than 28 years, 13; 20 years and less than 24 years, 242; 16 years and less than 20 rears, 1,481; 12 years and less than 16 years, 3,604; 8 years and less han 12 years, 5,444; 4 years and less than 8 years, 8,826; less than 1 years, 16,552; and with no previous service, 82,349. That is as of July 30, 1921.

Mr. Kelley. That makes a total of 119,000?

Captain WILLIAMS. Yes, sir. If you want the same information or the petty officers in the service, I can furnish it.

Mr. Kelley. Will that be much of a job? Captain Williams. Yes, sir; quite a job.

Mr. Kelley. This looks like a pretty top-heavy list to me.

Captain WILLIAMS. Let us determine what you are talking about—rhether it is what we have or what we want.

Mr. Kelley. I am referring to the last list you gave, making up he 65,000 men.

REASONS FOR RETAINING CHIEF PETTY OFFICERS IN SERVICE.

Captain Williams. I do not think so. That is a long story, and you ave heard it before. Let us take up the question of the chief petty fficers: The chief petty officer has no parallel in any other military ervice except the Navy. He is the highest leading man that we have, nd in many cases he is a very high-grade mechanic. He may be oth, and sometimes is. The number of those men depends, first, on he size of the ship and upon the character of the ship upon which e are estimating: it depends, second, upon the number of ships

upon which we are estimating, but aside from and beyond that, this group of men have qualifications which, perhaps, can not be measured mathematically. If you have a very large number of very young men or inexperienced men or incompletely trained men, you must, of necessity, have more men in these higher ratings. When your number is standardized, when your training is diffused from the top down, and when you have had your plan in operation for any length of time, perhaps then these inequalities will smooth themselves out, but under the present circumstances, upon the basis of our experience, and according to the best observations we can obtain, we say that this type of ships requires so many petty officers—that is, two of this type, three of that type to run the engines, etc., and by accumulating them we get the number. Now, it takes time to make them; they can not be easily replaced when the time comes, and they have a value greater than their mathematical value.

Mr. Kelley. I agree with you that if we have a small Navy we want to man it with good men, eliminating the boys as far as may be desirable, in order to bring about that condition. There is no dispute between us about that: but I say that possibly, even so, these per-

centages run pretty high in the upper grades.

Captain WILLIAMS. No, sir. I am very sure that Mr. Pugh can find in the hearings for years past statements showing that similar percentages have been carried in all the navies of the world. I am quite sure that that information has been given for Great Britain. France, Japan, and for all the foreign services. It is customary to compare them with the men in similar ratings in some other military branch, but there are none similar. They are not at all like anything I know of outside of the naval service.

Mr. Kelley. Mr. Reed, you heard those figures that the captain read off as the number desired on the basis of 65,000 men. From your recollection, would they hold pretty well proportionately with the number that you figured for the various grades when you made up the

pay table last year?

Mr. Reed. Do you mean for the appropriation for 1922?

Mr. Kelley. Yes.

Mr. Reed. This distribution is higher in the upper grades.

NUMBER OF MEN ENTITLED TO RESERVE-LAW PRIVILEGES.

Mr. Kelley. That is the way it struck me. It would help us if you would furnish us the number of men in each of the four higher ratings—that is, above the rating of firemen—with the length of service of those men. The statement should show the number that have served 4 years, the number that have served 8 years, the number that have served 12 years, and the number that have served 16 years, etc. We would like to have that statement covering the length of service of the four highest grades.

Captain WILLIAMS. You want to know what will be our best esti-

mate of their length of service?

Mr. Kelley. Yes.

Captain Williams. For instance, if you were estimating on 6.662 chief petty officers, you would want to have our best estimate of their length of service?

Mr. Kelley. Yes. It will have a bearing on the question of whether they will be likely to go into the reserves.

Captain WILLIAMS. Yes, sir. We have 8,400 permanent and 3,112

emporary.

Mr. Kelley. After a man has served 16 years, he then goes into the eserves at what pay?

Captain WILLIAMS. At one-third pay.

Mr. Kelley. There is quite an attraction there. He gets an an**nuity** of one-third of his pay?

Captain WILLIAMS. We have been discouraging that as far as we

ould.

Mr. Kelley. If you had an excess at all, the men who had served onger than 16 years might be glad to go out, if you would allow hem and did not need them.

Captain WILLIAMS. Our reserve legislation is now pending.

Mr. Byrnes. You say you have been discouraging them from going

.nto the reserves. Why do you do that?

Captain WILLIAMS. For many reasons. We want these men, in the first place, and want to keep them. In the second place, the reserve legislation is pending, and we do not want to load up that reserve list with any more of these people than we can help, or until the reserve business is settled. When you come to talk about the reserves you have a lot of new elements to consider.

Mr. Kelley. If there were a certain number going out, who had served 16 years, they would have certain rights of pay and other privileges, and, of course, nobody wants to deprive them of any of those rights. We want to know about how many would be entitled

to them.

Captain WILLIAMS. I do not think you will find the number very

Colonel ROOSEVELT. What you want is the number who would be entitled to certain privileges under the reserve law at this time in the Navy?

Mr. Kelley. Yes; in these higher grades. It would not appeal

to anybody else.

Colonel Roosevelt. Have you that information?

Captain WILLIAMS. I will supply that for the committee.

REDUCTION OF NAVY BY ALLOWING NORMAL DECREASE.

Mr. Kelley. Captain, you said a while ago that there were two ways of effecting this reduction, in case Congress decided to make

t. What is the other way?
Captain Williams. I think, taking all things into consideration, that I would much prefer the method of which we have been speak-The other method is one that is not new to us. It consists in allowing the normal decrease to take place, and, in fact, encouraging t, from the number we have now to the number it will reach on July 1. 1923, thereby establishing an average of 65,000 men. It, perhaps, vould bring about a delay in recruiting and, perhaps, a delay in the natter of training. By training under those circumstances, I mean rade schools also. We might be able to delay recruiting under those ircumstances until November or December of this year, and we night be able to get along without bringing in new men and without training. Now we have got 95,000, roughly speaking, and on July 1, 1923, we would have to cut down away below 65,000 in order to make an average of 65,000 for the year. It is not an easy thing to make a number of men fit the appropriation. The variables there are immense

The appropriation covers the pay of different grades: it covers the pay of a number of men which, as I have explained, is not always accurately available. We might be 1,000 men out in our count, and, consequently, in handling that many we have got to allow a large factor of safety. Our experience in 1920 and 1921, or in those two fiscal years, after the demobilization, showed that we came down, first, to an average of 120,00 men, and next to maintaining an average of 112,000 men, I think it was, and now we are under contract to maintain an average of about 90,000 plus. There is a fluctuation due to discharges. If the appropriation is exceeded, we discharge men, but if the appropriation is in excess, let us recruit men. That is extremely had from one point of view. We have certain figure now, or those figures on first enlistments that I read to vou a few moments ago. In my opinion, after considering all of the circumstances connected with the fluctuations in personnel, that is one of the results. To give the reasons would lead us far afield, but those fluctuations in personnel are, perhaps, as bad if not worse than the

Mr. Kelley. Have you can vassed the situation with the Secretary of the Navy to determine which of the two methods should be pursued?

Captain WILLIAMS. No. sir; I have not.

TRANSPORTATION AND RECRUITING.

Mr. Kelley. Of course, you will have to determine that before we take up the question of transportation and recruiting.

Captain WILLIAMS. You have got to have a variable there.

Mr. Kelley. But you would have to determine that.

Captain WILLIAMS. I have been watching the appropriation, transportation, and recruiting for the past four years. It is the twin sister of all this business. You may not believe me, but I know of no appropriation where the estimates have come so close to the expenditures. I know of none that I have had anything to do with that came closer.

Mr. Kelley. I think you started out with about \$12,000,000. Captain Williams. And it will amount to that before you get through with the deficiencies.

VARIATION IN PERSONNEL TO BE CAUSED BY REDUCTION.

Colonel Roosevelt. With your permission, I want to put in a statement in explanation of a phase of the matter on which Captain Williams has not yet spoken, and which is one of the most important factors in this situation: Should plan 2 be adopted, you would rundown from 50,000 men at sea to about 30,000 men at sea in the last half of the year.

Mr. Kelley. That would depend on where you started. Colonel Roosevelt. You could not do otherwise.

Mr. Kelley. Suppose you discharged a little bit between now and to 1st of July, and cut the number down to 70,000 or 75,000. It buld depend upon what you had between now and the 1st of July.

Colonel Roosevelt. I am cutting down to 65,000, which would be sout the same thing; but the difference between plan 1 and plan 2 this, that under the first plan you man your Navy with a constant 1 the year along, and you know what you have got, whereas under second plan you have slightly more men than Congress provided r, or slightly more than you considered was proper for the Navy, aring the first six months and less during the last six months, so sat you must cut down to a margin of great unsafety during the st six months.

Mr. French. Would not another difficulty arise under plan 2? nder that plan you would lose on ships that might be in remote laces—at the Philippines or in the Mediterranean—on the question f discharges, because the question of replacements would be a question of reserves, and replacements could not be made on those ships

they might be made on ships close in.

Colonel Roosevelt. Unquestionably. If it were a business, the instant would be fixed; but we have not our constants. We have sen shifting year after year, and have not got down to a constant ite, and the result is that it is up and down and we are not able figure on it.

Mr. Kelley. It might not be quite exact following either plan.

JUSTIFICATION FOR RUNNING TRAINING STATIONS.

Mr. Byrnes. Captain. how do you get that 49 per cent of first distincts? Did I understand you to say there were 49 per cent est enlistments during the past year?

Captain WILLIAMS. No. sir.

Mr. Byrnes. What is that figure?

Captain WILLIAMS. This is a figure which deals with the state of fairs as it is. During the fiscal year 1921 there were in the Navy average of 54,517 men on their first enlistments—that is to say, 49 or cent of the average number of men in 1921 were serving in their first enlistments.

Mr. Byrnes. Then, why were you arguing that it would necesitate running of training stations or operating the training stations for

cruits?

Captain WILLIAMS. That was not the argument.

Mr. Byrnes. Then, I misunderstood you.

Captain WILLIAMS. May I go over that again?

Mr. Byrnes. If that was not the argument, I misunderstood you. Captain Williams. The argument for running the training status is the number of discharges.

Mr. Byrnes. What I am driving at is this: If you have men serve their first enlistments, and they reenlist, it will not be necessary

train them.

Captain WILLIAMS. You have got the wrong idea.

Mr. Byrnes. What argument were you making to justify the operion of the training stations?

Captain WILLIAMS. The number of men who will actually go out this year, whether serving their first enlistment, second enlistment third enlistment, or any other enlistment. It is the number of me who will go out.

Mr. Byrnes. When the term of a man serving his first enlistment expires and he reenlists, you do not have to send him to a training

station?

Captain Williams. No, sir.

Mr. Byrnes. Therefore, when you say it depends upon the number of men going out, I do not see that the necessity for the training station necessarily follows. It does not necessarily follow that you would send those men to training stations.

Captain WILLIAMS. We have allowed, upon the basis of our esperience in the past, for 50 per cent of reenlistments, leaving 50 per cent of the vacancies to look out for. If you have 40,000 vacance and 20,000 reenlistments, you have 20,000 more vacancies to fill.

Mr. Byrnes. It is based upon your starting the next fiscal yes

with 65,000 men?

Captain WILLIAMS. It is based upon our experience in the past.

Mr. Kelley. But it disregards the reenlistment of other peop except those who immediately reenlist. There are boys all over the country who have had service in the Navy and who will be glad in reenlist. You can pick them out anywhere, and they will not require training. They are now hanging around waiting to see what we will do about the pay. They do not want to enlist for four years the old pay.

Captain WILLIAMS. There is a great deal in what you say, but to cording to my best judgment, I do not believe that that factor will ever counterbalance that estimate of six or seven thousand men per

month for training.

SATURDAY, MARCH 11, 1922.

INCREASE OF THE NAVY.

STATEMENTS OF REAR ADMIRAL DAVID W. TAYLOR, CHIL BUREAU OF CONSTRUCTION AND REPAIR; REAR ADMINA CHARLES B. McVAY, JR., CHIEF BUREAU OF ORDNANCE: All REAR ADMIRAL JOHN K. ROBINSON, CHIEF BUREAU OF EDG NEERING.

STATUS OF CONSTRUCTION OF VESSELS TO BE DISCONTINUED UNDER TREATY.

Mr. Kelley. We have with us this morning Admiral Taylor Chief of the Bureau of Construction and Repair, and Admir McVay, Chief of the Bureau of Ordnance, and their assistant We will hear Admiral Tavlor first.

Admiral, we want to make some inquiries this morning about the state of construction on vessels that are to be discontinued under the treaty, and also on those that are to be completed. How many battle ships have you now on the ways or now under construction? Admiral Taylor. We have now under construction 15.

Mr. Kelley. Does that number include cruisers?

Admiral Taylor. Yes, sir; it includes the capital ships. It inudes six battle cruisers, six large battleships, and three smaller ttleships.

Mr. Kelley. Of the battleships that are now building, how many

Il be finished under the treaty?

Admiral TAYLOR. Two of the Maryland class, namely, the Colo-

do and either the West Virginia or the Washington.

Mr. Kelley. What is the percentage of completion of the Colorado? Admiral Taylor. The Colorado is approximately 90 per cent cometed in the hull and somewhat less in machinery.

Mr. Kelley. The Colorado is expected to be finished within the

ext fiscal year, or during the present fiscal year?

Admiral TAYLOR. Within the next fiscal year, depending upon e money.

Mr. Kelley. How much more money will it take to finish the

olorado? I am speaking now of your part of it.

Admiral TAYLOR. Yes, sir; I understand that. After the 1st of ly next we estimate that \$2,000,000 will be required to finish the rlorado.

Mr. Kelley. Admiral McVay, how much will it take for your reau to finish it after the 1st of July?

Admiral McVAY. About \$1,500,000.

Mr. Kelley. Is there anybody that can speak for engineering? Admiral Taylor. The \$2,000,000 I gave includes construction and achinery.

Admiral McVay. In that connection, I take it that you mean how

ich more money will be needed?

Mr. Kelley. I want to know how much you will have to spend on rafter the 1st of July. The amount you gave is right?

Admiral McVAY. Yes, sir.

Mr. Kelley. That makes \$3,500,000 as the amount necessary to ish the Colorado. Now, either the Washington or the West Virnia will be finished?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. They are not far apart, I suppose?
Admiral Taylor. We have a board sitting on that. Whichever e is completed, there will be required about \$3,750,000 after the t of July for engineering and construction.

Mr. Kelley. And how much will be required for ordnance?

Admiral MoVAY. \$2,500,000.

Mr. Kelley. That means \$6,250,000 for either the West Virginia the Washington. About what is the percentage of completion of her or both of those ships?

Admiral TAYLOR. Roughly, in the neighborhood of 75 per cent. Mr. Kelley. Would it be your idea to wholly complete either the ashington or the West Virginia next year?

Admiral Taylor. It would be very desirable, because this slow ogress is very expensive. We have got to the condition where the vate shipyards have virtually nothing except Government work, I the price of material and labor is apparently not going down ch, and the overhead is going on all the time.

Mr. Kelley. It could be completed within the year without crowd-

• the work very much?

Admiral Taylor. Very readily; yes, sir. Unless we complete them, we will have to slow down the work very much.

CONVERSION OF VESSELS TO AIRCRAFT CARRIERS.

Mr. Kelley. Vessels of the battle cruiser type are all to be discontinued unless there is some legislative provision to convert then into aircraft carriers?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. Have you developed the situation far enough so that you can tell us this morning about the situation in reference to the conversion of two of them—that is, what it would cost and how

long it would take?

Admiral Taylor. Mechanically it is quite possible to convert them. The situation is that those at present most advanced have been built up on the ways up to the water line, and what we would do in converting them would be to utilize everything below the water line. What we would do would be to throw away everything above the water line, including the turrets for the guns and the structure above building a new structure for the aircraft carrier.

Mr. Kelley. So that, so far as the work of construction and the material that has gone into the ships are concerned, there would not

be any great loss involved in the conversion of them?

Admiral Taylor. Comparatively little. We have actually specion the ships in the neighborhood of \$6,000,000 each, in round figure and if it is necessary to scrap them, we figure that we will need about \$5,500,000 more for each, or \$6,000,000 for each, making an ultimate expenditure in the appropriation for construction and machiner on those ships of about \$11,500,000. As to the cost in the way of new expenditures for converting them into aircraft carriers, we figure that can be done within the limit of the cost of the battle cruiser or \$23,000,000. Therefore, converting them into aircraft carrier would require approximately \$11,500,000 of new money over what been spent and over what would be spent if they were scrapped

Mr. Kelley. What would have to be spent in scrapping the would come about through settlements and cancellations, and on a

count of the material that would have to be discarded?

Admiral Taylor. Yes, sir.

Mr. Kelley. Leaving out of the discussion entirely what it take to settle up, in order that it might be handled as a separate proper sition, how much will it take to finish the two battle cruisers further advanced, or the two that you have in mind to finish as airplant carriers?

Admiral Taylor. It would be in the neighborhood of \$17,000,00 apiece. That is additional to what has already been spent. Some thing, of course, will depend upon the date upon which they spend inished.

Mr. Kelley. That \$17,000,000 is the difference between the lim of cost of the battle cruisers and what has been spent upon them? Admiral Taylor. Yes, sir.

Mr. Kelley. Now, as to the ordnance end of it. Does your stall ment include engineering also?

Admiral Taylor. Yes, sir: I have those statements together.

Admiral McVay. Eleven million dollars would be required for dnance.

Mr. Kelley. Apièce?

Admiral McVay. No, sir; for the two. \$6,400,000 would be reired for armor and armament and \$4,600,000 for the item of munition.

Mr. Kelley. Making \$11,000,000 altogether.

Admiral McVay. Yes, sir.

Mr. Kelley. Suppose you leave out for the moment the question ammunition. You would require in finishing the ships how much? Admiral McVay. \$6,400,000.

Mr. Kelley. For the two? Admiral McVAY. Yes, sir.

Mr. Kelley. Then, that makes for the actual completion of the

ships as airplane carriers the sum of \$40,400,000.

Admiral TAYLOR. I was going to say that that figure that I gave you is not the figure after the 1st of July. If we were authorized proceed promptly, we would spend between now and the 1st of ≥ly in the neighborhood of \$3,000,000.

Mr. Kelley. On each one?

Admiral Taylor. On the two. We are in a rather uncertain state, cause we do not know whether they will be converted, and we do t know whether we will have a separate appropriation for scrap**ng** them.

Mr. Kelley. What part of this would you expect to spend during coming year, or after July 1, and how rapidly would this work forward?

Admiral Taylor. If the work were carried on at a normal rate we gure that the minimum amount would be \$7,000,000 on each vessel **r** construction and machinery.

Mr. Kelley. Does the ordnance work need to go forward at the

me time this coming year?

Admiral McVay. It does; yes, sir; but, assuming that the ships

ill be scrapped, we will require no money.

Mr. Kelley. Seven million dollars each would be expended for enstruction and machinery. How much, Admiral McVay, would expended next year for ordnance?

Admiral McVay. Well, we should have about \$7,000,000.

two-thirds of it.

Mr. Kelley. You gave the figure of \$6,400,000.

Admiral McVAY. It would be about \$4,000,000 for armor and

Mr. Kelley. Would you have to have \$2,000,000 for each ship for dnance this coming year?

Admiral McVAY. Yes, sir.

Mr. Kelley. Of course, it all depends on when these are authoras to what you can spend during the rest of this year?

Admiral McVAY. It does; yes, sir.

Mr. Kelley. In other words, you can not do anything until Coness authorizes the reconstruction or conversion of these cruisers o airplane carriers?

Admiral McVay. No, sir; and, not only that, but so long as the rk is suspended it is costing us about \$10,000 per day for suspension charges. The stoppage of work saves about \$80,000 per debut the suspension charges, or holding it in readiness to be o tinued, will run about \$10,000 per day.

Mr. Byrnes. How do you estimate that?

Admiral McVay. When it seemed likely that the scrapping be would go through, I invited the larger contractors to a confermand asked them to please outline their charges. There is nother settled, but they have outlined the charges, and from that I has figured what it would cost.

Mr. Byrnes. \$10,000 per day?

Admiral McVay. Yes, sir.

Mr. Kelley. These figures make up \$3,500,000 for the Colora and \$6,250,000 for the other battleship, either the Washington the West Virginia, and \$18,000,000 for the two airplane carriers next year, in case Congress makes the authorization and the other ships are continued?

SCOUT CRUISERS.

STATUS OF CONSTRUCTION AND COST TO COMPLETE.

Admiral Taylor. And there are 10 scout cruisers.

Mr. Kelley. Give us the figure for the completion of the 10 so cruisers, and give them by name. Perhaps you could put in a tal

at this point.

Admiral Taylor. They vary in state of completion. The Ome is 95 per cent completed. This table shows all the vessels und construction, including those to be scrapped and those not to scrapped.

Mr. Kelley. I think it would be a good thing to put this tal

into the hearing.

Admiral Taylor. I can put the whole thing in covering all vess building.

(The table referred to is as follows:)

Vessels under construction, United States Navy, February 28, 1922.

Type No.	Name.	Contractor.	Per e of en plati Mar 198
	BATTLESHIPS (BB).		
45 -	Colorado	New York Shipbuilding Corporation	
	Washington	do	
48	West Virginia	Newport News Shipbuilding & Dry Dock Co New York Navy Yard	
49 ' 50 :	South Dakota.	New York Navy Yard	
51	Indiana	do	
52	North Carolina.	Norfolk Navy Yard	
	Iowa.	Newport News Shipbuilding & Dry Dock Co	
54	Massachusetts	Bethlehem Shipbuilding Corporation (Fore River).	
	BATTLE (RUISERS (CC).		
1	Lexington	Bethlehem Shipbuilding Corporation (Fore River).	
2	Constellation	Newport News Shipbuilding & Dry Dock Co.	1
3	Saratoga		
4.	Ranger	Newport News Shipbuilding & Dry Dock Co	
5	Constitution		
6	Cinted States	do	I

der construction, United States Navy, February 28, 1922-Continued.

Name.	Contractor.	Per cent of com- pletion Mar. 1, 1922.
CRUISERS (LIGHT CRUISERS CL).		
a	Todd Dry Dock and Construction Corpora-	94.7
ukee	do	87
natih.	Bethlehem Shipbuilding Corporation (Fore River).	81. 8 46. 6
t	Wm. Cramp & Sons Cododo	68, 1
ond	do	80 77
011	do do	46
eheadhis	do	33 26
DESTROYER AUXILIARIES.		
r ship No. 1, Medusa (AR1) yer tender No. 3, Dobbin (AD3). yer tender No. 4, Whitney	Puget Sound Navy Yard	69. 8 67. 8 42. 1
4). arine tender No. 3, Holland 3).	Puget Sound Navy Yard	5. 5
PATROL VESSELS.		
at No. 22, Tulsa (PG22)	Charleston Navy Yard	60
SUBMARINES.	To all (N. W.) Name Vand	
	Portsmouth (N. H.) Navy Yarddodo.	94. 8 92.
	do	91.6
	do Electric Boat Co. (Quincy)	89.
	Electric Boat Co. (Quincy)	97
	do	96. 98.
• • • • • • • •	do	94.
	do	95.
	do	94 93
	do	93.
	do	91.
	l do	90
	do	90.
	doElectric Boat Co. (San Francisco)	. 89
	do	97.
• • • • • • • • • • • • • • • • • • • •	l ala	96.
	do do	99.1 95.0
		93. 23.
	do	92.
		91.
		85. 83
	do	79.
	do	82.
	do do Electric Boat Co. (Quincy)	70
	(10)	71.1 68.4
	do	69.
	1 do	67. 2
	do . Lake Torpedo Boat Co. (Bridgeport)	66.
	Lake Torpedo Boat Co. (Bridgeport)	98. 99.
	do	97.
	do	94.
FLEET SUBMARINES.	Portsmouth (N. H.) Navy Yard	15.8
	dodo.	10
	do	9

Admiral Taylor. Of course, the statement as to the percentage of completion applies to the hull only, but the machinery is some where near the same. The ordnance, as a rule, is ahead of the had and machinery.

Mr. Kelley. How much are you asking for the continuation of

these scout cruisers?
Admiral Taylor. I want to give you the facts. Practically d of these scout cruisers could be finished during next year. It vil cost to finish them after the 1st of July, \$23,000,000, in round figures.

Mr. Kelley. You think they could be completed next year! Admiral Taylor. Yes, sir. The progress is such that they could readily be completed next year. You will notice that there is only one that is not over one-third completed, that being the Memphia which is 26 per cent completed. It is 40 per cent completed if we include the material in the yard. The reason they are no further advanced is because they were slowed up this year. The contractor are very anxious to go on with them, and have a lot of machine waiting around to go into the ships as soon as the ships are read

Mr. Kelley. Operations figures on only three going in this com-

ing year.

Admiral Taylor. Do they not figure on three during the current

Mr. Kelley. No; next year. Admiral Taylor. They figure that the work will be slowed down The work is actually suspended at the present time on the Omah on account of the fact that she has reached her limit of cost.

Mr. Kelley. Will the three most nearly finished be finished by th

1st of July?

Admiral Taylor. The Omoha and the two Cramps ships will b finished by the 1st of July, unless they reach their limits of con and Congress does not authorize an increase. We suspended wor on the Omaha because the Omaha reached her limit of cost and we will suspend work on the others as they reach that point unless we get some further authorization.

Mr. Kelley. If that barrier were removed-

Admiral Taylor (interposing). It is very expensive to suspen

Mr. Byrnes. What is it costing?

Admiral Taylor. It is rather difficult to specify, but we have have to take all the men off and do nothing but preservation work. Bu for that the Omaha would have been on trial in May. work in January or early February.

Mr. Kelley. If that barrier of the limit of cost were remove would you expect to have the Omaha, the Milwaukee, and the Co

cinnati finished this year?
Admiral Taylor. This year; yes, sir.

Mr. Kelley. In this \$23,000,000 that you have specified for \$\frac{1}{2}\$ ishing the scout cruisers, do you include what you might expe from now until the 1st of July?

Admiral Taylor. No. sir; that only includes new money aft the 1st of July. The total cost of those 10 vessels will be about 31,000,000, of which we have spent something over \$50,000,000, and money is scheduled for them under the allotment going on which ill make the amount spent after the 1st of July \$23,000,000.

Mr. Kelley. Let us take the first three, the Omaha, the Milwaukee, and the Cincinnati: How much do you think you will need for those

nree ships next year?

Admiral Taylor. I have figured out the total, but I have not the gures for the individual ships.

Mr. Kelley. How much would it take to finish those three ships

you could go right ahead with them? Admiral TAYLOR. About \$4,000,000, from the present status.

Mr. Kelley. If you do get the limit of cost raised, you will need **4.000**,000 for those three ships after the 1st of July for construction nd machinery?

Admiral Taylor. Yes, sir. Unless the limit is raised before. Admiral McVay. For ordnance we would require \$1,600,000.

Mr. Kelley. Does that include ammunition?

Admiral McVay. No, sir.

Mr. Kelley. What is the status of the next four that seem to be

airly along?

Admiral TAYLOR. The vessels which are furthest advanced of the text four are the two first building by Cramps, the Richmond and *Concord; they are further along than the two building at Fore River.

Mr. Kelley. They are going forward now? Admiral Taylor. Yes, sii.

Mr. Kelley. Would you expect to finish those four, under ordilary circumstances, next year?

Admiral Taylor. Yes, sir.

Mr. Kelley. And what would they require?

Admiral TAYLOR. I have not that separated ship by ship, so I vould like to check that figure in the record, but it would be approximately in the neighborhood of \$8,000,000 next year.

Mr. Kelley. For the four?

Admiral Taylor. For those four. Those four should be \$7,000,000, nstead of \$8,000,000.

Admiral McVay. The armament would cost \$2,000,000.

Mr. Kelley. Then, to finish those four would take an even **9.000.000**?

Admiral McVay. Yes, sir.

Mr. Kelley. The last three probably would not be finished in the

Admiral Taylor. No, sir; they could be finished, but at the rate re have been carrying on the work they will not be finished.

Mr. Kelley. How much would you need to carry those on mod-

rately?

Admiral Taylor. About \$6,000,000 would carry them on at a slow ate, sir. That would mean that during the year we would do oneuarter, roughly, of the total cost—the total cost being in the neighorhood of \$24,000,000, and \$6,000,000 would do about one-quarter f the work.

ORDNANCE.

Mr. Kelley. How much for the ordnance? Admiral McVay. \$900,000.

Mr. Kelley. What is the total for all the ordnance on all of these ships to finish them?

Admiral McVAY. \$6,200,000.

Mr. Kelley. Then you intend to finish your part of these ships entirely next year?

Admiral McVAY. Yes, sir.

Mr. Kelley. Would it be necessary to do that? Admiral McVay. We always have to be a little ahead of the other bureaus, because as the work goes along under Construction the contractors call for certain material for installation, and if it is not ready there is a claim made; so we always try to work a little ahead of the other bureaus.

Mr. Kelley. How are you going to handle the material you have on hand from the scrapping of ships if you use it on these ships!

Admiral Taylor. As regards scouts, there will be comparatively little of the material from scrapping which can be used, because the vessels scrapped are of different types. For instance, we could not use the plates, because each plate and shape is ordered for a particular part of the ship—that is, the plates and shapes to go in the big ships—and will not fit elsewhere.

Mr. Kelley. That would not be so true of the armor.

Admiral McVay. On the scouts, of course, there is no armor, but

it is not true of the armament; no, sir.

Mr. Kelley. If there were guns intended for some other use, they could be put on these ships without loss.

Admiral McVay. Well, we have the guns; we have them now.

Mr. Byrnes. You already have these guns?

Admiral McVAY. Yes, sir.

Mr. Kelley. For what purpose will you mostly use this \$6,200,000! Admiral McVay. It is for these new mounts and the fire control.

LIMIT OF COST.

Mr. Kelley. Is there a limit of cost as to your part of these ships! Admiral McVay. Only that covered by the hearings before the committee, in which we have specified the amount of money from year to year to continue the work.

Mr. Kelley. I say, is there any limit of cost fixed by law?

Admiral McVay. No. sir.

Mr. Kelley. You can spend as much for ordnance as you can get

Congress to appropriate money for?

Admiral McVay. Yes: except that we always specify the amount. Mr. Kelley. But Admiral Taylor's bureau is limited by law!

Admiral McVAY. Yes, sir.

Mr. Kelley. So you can go ahead and change these mounts and change these plans for ordnance all you please, irrespective of what it will cost?

Admiral McVAY. Yes, sir; but, of course, we never do it without explaining to the committees what we are doing.

GUNS, MOUNTS, AND FIRE CONTROL.

Mr. Kelley. I understood you to say that the \$6,200,000 you are asking for next year is for the new features on the ships.

miral McVay. And completing the present features.

. Kelley. You said you had the guns finished, and what else is but the mounts?

miral McVay. Well, there are the mounts-

. Kelley (interposing). And the mounts cost \$2,300,000? miral McVay. That is for these special mounts.

. Kelley. How much for the other mounts?

miral McVay. And the other mounts cost \$152,000 apiece. Kelley. How many of them are there?

miral McVay. There are 10 ships, so that it will be something 1,520,000. The fire-control costs \$292,000 per ship.

. Kelley. And there are 10 of those?

miral McVay: Yes, sir.

. Kelley. Will not all of that be done before the 1st of July or ny of your expenditure already been made?

miral McVay. Yes, sir; there has been a proportion of it.

. Kelley. There is no question about the guns, and you will have 1 53-caliber guns to spare?

miral McVAY. No; they are pretty nearly finished, but I can

II you the number finished.

. Kelley. You must have had a vast number of the 6-inch 53er guns that you were making for your battleships, so that you lots of guns, of course? miral McVay. No.

. Kelley. And have you not the gun mounts, too?

miral McVay. No, sir.

Kelley. How many 6-inch guns will there be on the battle-

miral McVay. There are 16 on each of four ships. I will have ter in the record the number finished, because from this record pears that for all the ships the guns are under manufacture.

. Kelley. You were building a large number of battleships and : cruisers?

miral McVay. Yes, sir.

. Kelley. On some of them there were sixteen 6-inch 53-caliber

miral McVay. Yes, sir.

. Kelley. And the 6-inch 52-caliber gun is the gun you are to put on these cruisers? miral McVay. Yes, sir.

. Kelley. Have you not plenty of guns to put on the cruisers are finished, including the mounts?

miral McVAY. No.

. Kelley. What has become of all the guns you were making ie battleships and which you will not need to mount now? miral McVay. I can not give you, offhand, the number com-1, but I can get it and enter it in the record.

. Kelley. You ought to know or somebody around your place to know whether or not you have not finished large numbers

nch 53-caliber guns for some of the battleships.

miral McVay. No; we have not. I can tell you that they are arked under manufacture for all of these ships. I know that of the 6-inch guns are completed, but how many I can not say. Mr. Kelley. How about the mounts? This is so unsatisfactory that we can not do anything, and you will have to prepare a list of ships that are canceled, with the armament that is under process of manufacture or whether it is manufactured or not, and give us the full condition of the armament on every ship that is to be scrapped.

Admiral McVay. Here it is; I am reading it off to you, but it is

under manufacture right now.

Mr. Kelley. You say there are a few here and a few there, but we can not get any head or tail out of that

we can not get any head or tail out of that.

Admiral McVay. I have a statement here showing that the guns

are under manufacture.

Mr. Kelley. How far are they manufactured? Admiral McVAy. That is what I can not tell.

Mr. Kelley. Then it is of no use to us. We want to know in dollars and cents how much it will take to finish this job, and we can not know unless we know exactly how far advanced each one of these pieces of armament is on all the ships to be scrapped and those to be finished.

Mr. Oliver. Have you guns of this type on any of the old ships!

Admiral McVAY. No, sir.

Mr. OLIVER. You never had that type of gun?

Admiral McVay. No, sir.

Mr. Kelley. If you have guns intended to be put on the battleships that are finished of this very same type, of course, there is mo use in finishing these.

Admiral McVay. That is the reason I have to take up the details because when we make guns we do not make guns for a particular ship, but we make guns for the total number of ships, and as ships come along we put the guns on them.

Mr. Kelley. The 6-inch 53 caliber gun is the 6-inch 53 caliber

gun, mount and all?

Admiral McVay. Yes, sir; we have to make so many, and as the ships become ready for them they are sent there.

Mr. Kelley. You do not know whether you will need \$6,200,000

or not?

Admiral McVay. Yes, sir.

Mr. Kelley. Because you do not know in what condition your

guns are or your mounts are?

Admiral McVay. Yes, sir: that data is figured out as a total without the details, without going into the details for the different ship but I can get that and put it in. I simply do not happen to have a here.

Mr. Byrnes. You mean you have figured it out by details but you

have not the details here with you?

Admiral McVay. That is it; yes, sir. You understand, do you not, that we were carrying on these guns under manufacture for all the ships?

Mr. Kelley. I do.

Admiral McVay. And as they were ready they were sent to the ships that needed them?

Mr. Kelley. I understand that very well.

Admiral McVay. And this \$6,200,000 is needed for the complete of all the guns, 6-inch guns and mounts, but only those for the

at are not to be scrapped, and I will have to get the details

that.

Mr. Kelley. You said the mounts would cost \$2,600,000, but you I not know how much you had already expended on the mounts. Admiral McVAY. Not in detail, no, sir; but I can get it without

y difficulty.

Mr. Kelley. The figures you have given here, you say, will be the tire cost of the guns and the mounts as well as the fire control, so would look as though you had not spent anything on guns, mounts, fire control up to this time, which is not the fact, of course.

Admiral McVay. No.

Mr. Kelley. The \$6,200,000 is pretty nearly the total amount you ed for those three purposes, according to the figures you gave? Admiral McVay. Yes, sir.

Mr. Kelley. You do not know, of that \$6,200,000, how much you ve already spent, so you see we are not any nearer the goal than were when we started.

Admiral McVAY. Well, I will put that in.

Mr. Kelley. Obviously, the \$6,200,000 you said you would need

er the 1st of July is not a correct figure.
Admiral MoVay. Yes, it is; but the only thing is that I am not

e at the present time to put the details in.

Mr. Kelley. I wish you would prepare a list, properly classified, wing every gun and mount under manufacture, on hand and not installed, including guns and mounts o vessels to be scrapped. Admiral McVAY. Yes, sir. I will furnish this information to the nmittee.

USE OF MATERIALS ON HAND.

Mr. Kelley. I understood you to say, Admiral Taylor, that as as engineering and construction are concerned there is very little terial on hand, which was purchased for the ships to be scrapped,

t can be used on these ships.

Idmiral Taylor. Comparatively little on the scouts. We would able to use such a thing as a ventilating fan, for instance, a smalled ventilating fan, but the larger ships as a rule have the larger s for the system. We could use a certain amount of sheet metal ich is ordered for making pipes and things of that kind, but that ot a very large factor. We would expect to use as much of that possible, but it would not be a very large factor. You must also tember that we have on hand for these scouts the major portion the materials. I think as regards machinery comparatively little ild be used. The pumps, for instance, and things of that kind, ild not be adapted to a different engine room, because they are xially designed for the purpose.

USE OF AMMUNITION.

Mr. Kelley. Admiral McVay, that would not be true of your part the ship at all? The ammunition for the 6-inch 53 caliber guns t you have for these ships could be used on the other ships just

dmiral McVAY. We have that; yes, sir.

Mr. Kelley. So you would not need to include anything for that! Admiral McVay. We have not all the 6-inch .53-caliber ammunition.

Mr. Kelley. Have you not made any?

Admiral McVAY. No, sir; not all.

Mr. Kelley. I wish you would prepare a statement and send it to us, showing exactly the state of your manufacture of ammunition.

Admiral McVay. Yes, sir.

Mr. Kelley. For all the ships that are under construction, whether they are to be scrapped or not.

Admiral McVAY. I have that here just for the capital ships, but do

not have it for the others.

Mr. Kelley. You have a lot of 6-inch .53-caliber guns on your capital ships. Have you not made any ammunition for them! Admiral McVax. No, sir: there is none of it ordered.

Mr. Kelley. That is rather unusual, is it not?

Admiral McVay. It is due to the design of the projectile.

Mr. Kelley. What ammunition have you bought for those ships! Admiral McVay. We have the major caliber and we have the 5-inch ammunition. All of this is for the battle cruisers. We have the major caliber, and that is all.

Mr. Kelley. What 5-inch guns are you talking about?

Admiral McVAY. Antiaircraft guns.

Mr. Kelley. Do you have ammunition for them?

Admiral McVAY. No. sir.

Mr. Kelley. What of the smaller caliber ammunition have you

Admiral McVay. We have not ordered any of it.

Mr. Kelley. You have the 5-inch and 6-inch, have you not?

Admiral McVAY. No. sir: not for these ships.

Mr. Kelley. Have you for any ships? Admiral McVay. We made a contract for 200 experimental a short time ago to test them on the range.

Mr. Kelley. What have you expended the \$51,000,000 for under

this ammunition program?

Admiral McVay. It is for the 6-inch projectiles chiefly and the powder.

Mr. Kelley. How much is completed?

Admiral McVAY. We have all of it for the Washington, all for the West Virginia, all for the South Dakota, all for the Indiana, all for the Montana; for the North Carolina we have only got a part of it, because they were under order at the South Charleston plant; for the lowa we have 900, and for the Massachusetts we have about one half of this, and the other half is under contract.

Mr. Kelley. How much does that run into money? Had you

finished your statement?

Admiral McVay. No. sir. For the Lexington, we have 1.800; for the Constellation we have 1.800, or the full amount; for the Saratoga we have 1,800, or the full amount; for the Ranger, we have the full amount; for the Constitution we have 1,800, or the full amount; and for the United States we have 1.800 on hand.

Mr. Kelley. I want to know in dollars and cents where this \$51,

000,000 goes.

Admiral McVAY. The 16-inch ammunition comes to about \$24,-**500.**000.

Mr. Kelley. That you have on hand? Admiral McVay. Yes, sir.

Mr. Kelley. Where is the rest of the \$51,000,000? Admiral McVay. I can put that in the record.

Mr. Kelley. Please send up a statement, as soon as you can, showing exactly what you have done with the \$168,000,000 that you spent for armor and armament, and the \$51,000,000 that you spent for ammunition, showing the ships on which it has gone, the guns, or types of guns, and the kinds of ammunition.

Admiral McVAY. I will furnish that.

3-INCH AND 5-INCH GUNS.

Mr. Kelley. When did you change these guns from 3-inch guns to 5-inch guns?

Admiral McVay. That has been planned for new construction

battleships and airplane carrier.

Mr. Kelley. I notice that the ship's data book, dated July 1, puts them down as 3-inch guns. I am referring to these antiaircraft guns.
Admiral McVay. The department directed batteries of 5-inch guns

placed on late battleships.

Mr. Kelley. When was that done?

Admiral McVay. About 10 months ago. Mr. Kelley. It did not get into this book.

Admiral McVay. No, sir; it was since that book. Mr. Kelley. This book was printed the 1st of July?

Admiral McVay. That has been nine months now. I will give you the date of that direction.

Mr. Kelley. Had you made any 3-inch guns? Admiral McVay. Yes, sir.

Mr. Kelley. Are you throwing them aside and making 5-inch

Admiral McVay. No, sir. Do you mean had we made the 3-inch

guns?

Mr. Kelley. Yes.

Admiral McVay. No, sir; we had 3-inch guns left over from the

Mr. Kelley. You decided to leave them and make 5-inch guns? Admiral McVay. Yes, sir; after the test of the 3-inch guns. We went into the question of antiaircraft defense much more extensively, and, as a matter of fact, we are still carrying out tests at the proving

Mr. Kelley. These ships were designed before the war, and out of your experience you figure that the 5-inch antiaircraft gun is much

more valuable?

Admiral McVAY. Yes, sir.

Mr. Kelley. How much more do they cost than those you have on

hand, or the 3-inch guns?
Admiral McVay. The 5-inch gun costs \$12,000, and, I think, the ^{3-inch} gun costs about \$4,000, as I remember it.

Mr. Kelley. That much more?

Admiral McVay. No, sir; the 3-inch gun will cost \$4,000 as compared with \$12,000 for the 12-inch gun.

Mr. Kelley. Are the mounts the same?

Admiral McVay. No, sir; the mounts are more expensive. Mr. Kelley. What would be the difference in the mounts?

Admiral McVay. The 5-inch mount costs \$18,500.

Mr. Kelley. What does the 3-inch mount cost?

Admiral McVAY. About \$7.800.

Mr. Kelley. Do you have the mounts for the 3-inch guns!

Admiral McVAY. Yes, sir; we have the mounts for them. a sufficient number to put the 3-inch guns on the ships temporarily until we can get the 5-inch guns for them; but they are not at all satisfactory.

Mr. Kelley. How many 3-inch guns have you on hand?

Admiral McVay. A large number.

Mr. Kelley. And how many mounts?

Admiral McVAY. We have a large number of them on hand. Mr. Kelley. Do you have any 5-inch guns mounted for this purpose?

Admiral McVay. No. sir.

Mr. Kelley. You know just what I want?

Admiral McVAY. Yes, sir.

Mr. Kelley. I want a history of your ammunition situation and a history of your gun situation.

Admiral McVAY. I will furnish that.

AUXILIARIES.

Mr. Kelley. You have four auxiliaries here. Are all of them to be finished!

Admiral Taylor. Yes, sir; they are not barred by the conference. Mr. Kelley. Will any of them be finished before the 1st of July! Admiral Taylor. No, sir.

Mr. Kelley. How much will you require for them after the 1st

of July!

Admiral Taylor. To finish them after the 1st of July, including the gunboat, about \$9,000,000 will be required. Normally three of them would be finished next year. I should say that the work is suspended on the Holland, at Puget Sound, because of lack of funds: but it is being carried along on the Medusa.

Mr. Kelley. How much of the \$9,000,000 will be required next

vear!

Admiral Taylor. If they were carried on at the normal rate, there would be required about \$7,000,000.

Mr. Kelley. Admiral McVay, you do not have anything to do

with these tenders or gunboats, do you?
Admiral McVay. Yes, sir. As of the 1st of January, there was required \$1,000,000 to complete the gunboats and four auxiliaries.

Mr. Kelley. You will do that before the 1st of July, will you not! Admiral McVay. I think it will be safe to say that it will require about \$300,000 after the 1st of July.

Mr. Kelley. What is it that you have not on hand that you must manufacture for the gunboats! Is this a 3-inch gun?

Admiral McVAY. No. sir. That is practically finished.

c. Kelley. You do not want any money for that at all? lmiral McVAY. No, sir.

r. Kelley. You do not have anything to do with the repair ships nders?

lmiral McVay. That covers the batteries for all the repair ships tenders.

r. Kelley. What do you need for that?

lmiral McVAY. \$1,000,000.

r. Kelley. What do you need it for? Imiral McVay. We do not need it after the 1st of July.

. Kelley. You do not need anything at all for that next year? lmiral McVAY. No, sir.

DESTROYERS.

r. Kelley. There are three more destroyers: How much will want for them after the 1st of July? lmiral Taylor. Nothing. They are being finished under the l emergency fund, and will be finished this year. They are not

r the "Increase of the Navy," anyway. I might say that the cost of those we will build at Mare Island will be apparently 0,000 apiece, as against \$1,500,000 or \$1.600,000 for those we are ling by contract. The work on them progressed rather slowly, I was uneasy for fear they would cost more than that.

: Kelley. The other destroyers will not be built?

lmiral TAYLOR. No. sir.

. Kelley. You will not need any money for destroyers?

lmiral McVay. No, sir.

· Kelley. You had some \$10,000,000 last year, as I recall, left from that fund? lmiral McVAY. Yes, sir.

. Kelley. Have you any of that left? • Imiral McVay. We have a balance of about \$11,000,000.

: Kelley. You had a \$40,000,000 fund, and the department dil it up with some other offices. How much did they leave you? miral McVAY. \$11,000,000.

. Kelley. You have not spent any of it?

MANUFACTURE OF TORPEDOES.

miral McVay. We are expending it in the manufacture of tores right along.

. Kelley. Have you made torpedoes for the battleships that

be scrapped?

miral McVAY. Yes, sir.

. Kelley. Are they of the same size? They fit the same tubes,

lmiral McVay. No, sir. This is the actual number of torpedoes ired under the department's ruling, and I can not change it at out I have recommended that we cut it down. I think that nmendation will be approved.

r. Kelley. When did they make this ruling—since the con-

ice?

lmiral McVay. No, sir.

SUBMARINE CONSTRUCTION.

Mr. Kelley. How much will you need to finish the submarines that are under construction?

Admiral TAYLOR. Before that, may I suggest that we are embarassed from time to time by the fact that "Increase of the Navy" is in these two appropriations, "Torpedo boats" and "C. and M.," and if you gentlemen could see your way clear to put it in one appropriation it would save some money and avoid embarrassments from time to time.

Mr. Kelley. This is carried in a separate paragraph under "In-

crease of the Navy"?

Admiral Taylor. Yes; and the estimate was entirely inadequate. That was simply put in for the reason that we knew that the estimate last year would be revised. The amount allowed last year was \$5,000,000. As to the S boats, S-10 to S-51—there are 38 on the list—we will need to complete after the 1st of July about \$12,500,000.

Mr. Kelley. How many of them are there?

Admiral TAYLOR. There are 38 S boats on that list, and 41 all told, including the three V type.

Mr. Kelley. Do you expect to finish them next year?

Admiral Taylor. As you know, those boats have been almost in suspense for nearly two years owing to troubles about the machinery and inability to agree with the contractors as to what should be done. Recently that has all been cleared up; we have rewritten those contracts on a lump-sum basis and we are now prepared to go ahead and finish those boats very promptly. That has recently been done; we have stopped all the cost-plus business and they are on a lump-sum basis. They give us machinery that Admiral Robison thinks is wanted in them.

Mr. Kelley. They are going to make everything satisfactory!

Admiral TAYLOR. Yes, sir.

Mr. Kelley. Are the engines all right?

Admiral TAYLOR. The engines, I think Admiral Robison will tell you, will be satisfactory. Of course, I only know it by hearsay, but we have accomplished a great deal in putting these vessels under a lump-sum contract and forcing the contractor to give us ships that are satisfactory.

Mr. Kelley. The engines are all right, are they?

Admiral Robison. The best we can get.

Mr. Kelley. They are not all right, but they are the best you can get?

Admiral Robison. They are the best that we can get. Mr. Kelley. They are not perfectly satisfactory to you?

Admiral Robison. They are the best I can get; I would not like to say anything more than that. The faults with the engines in the past have been very serious; the engines have failed when we tried to use them and the shafts have broken, but I do not think the shafts will break in the new ones, and it appears that many of the minor defects will have been corrected. However, the fact remains that the development of the Diesel engine has just about reached the stage that the steam engine had reached in 1840, and we are not going to obtain quite as satisfactory machinery as I could wish for; but, considering the date of the designs, I think it is fair to the contractor to do

hat we have done, and I do not think we have a right to haggle as to inor defects.

Mr. Kelley. Do you think you ought to have 40 men besides the rew to take care of every submarine in the Navy?

Admiral Robison. On each boat?

Mr. Kelley. Yes.

Admiral Robison. The Germans did during the war; I do not know many are necessary, but there is nothing I know of that requires areful training so much as the crew of a submarine.

Mr. Kelley. The crew goes out, and it is rather arduous and diffi-

ult service.

Admiral Robison. The first thing they have to do is to keep it from

inking.

Mr. Kelley. But I mean they can not stay out very long at a time rithout discomfort, because they do not have any physical comforts in the ship itself.

Admiral Robison. There is no opportunity for moving about or for

xercising, and it is unhealthy.

Mr. Kelley. When they come in how long should they stay, as a

Tule, to rest up?

Admiral Robison. The Germans during the war, when they were perating them at their fastest rate, kept them in port a little more han half the time.

Mr. Kelley. That was the very best they could do when the life

▶f their nation was at stake?

Admiral Robison. That was the best they could do.

Mr. Kelley. In peace times they would not attempt anything like hat?

Admiral Robison. No; we would not have any expectation of geting more than 20 per cent of operating time; I think that, as a rule,

Fir. they are limited to 20 per cent of operating time.

Mr. Kelley. If a crew operated one week out of four they could some in and rest up comfortably in another week, I suppose, and then they would have a couple of weeks in which they could assist making repairs and that kind of work.

Admiral Robison. Yes; they are doing that pretty much continu-

busly.

Mr. Kelley. I know, but we have a situation where we have 40

men in addition to the crew for every submarine in the Navy.

Admiral Robison. Yes. We are hampered in the submarine crews, and in most cases where we need artisans by the necessity of carefully training the men to do the special work. You have been on a submarine, have you not?

Mr. Kelley. Yes.

Admiral Robison. Think of the fellow who determines whether the bow goes up or down.

Mr. Kelley. I know it is very arduous.

Admiral Robison. No; that is not difficult if you know how.

Mr. Kelly. It is like everything else.

Admiral Robison. But we have got to get some people who know how, and we have to take farmer boys and make them fit.

Mr. Kelley. We could figure on these ships being in port about three-fourths of the time in peace time?

Admiral Robison. I think 20 per cent is the maximum amount that they are allowed to be under way, under the orders of the Cl of Operations, but that is an order that is not addressed to me, ar can not give you a definite answer.

Mr. Kelley. Admiral McVay, are you interested in these sub

rines for next year?
Admiral McVay. Only to the extent of the torpedoes.

Mr. Kelley. You have a lot of submarines on hand, and could not take the torpedo tubes off of them and put them right on t ships?

Admiral McVay. No, sir; we have not a sufficient number.

Mr. Kelley. Are they different?

Admiral Taylor. The submarine tubes are built in the hull: are fixed, and the tubes have to be made for each boat specially.

Mr. Kelley. But the torpedo is the same, is it not?

Admiral McVay. No, sir; it has a short range.

Mr. Kelley. Could you not use the old type of torpedo, the short ones?

Admiral McVay. No, sir. All of the old short ones that are

assigned to vessels are the ones-

Mr. Kelley (interposing). You have a lot of old short one vessels that are to be scrapped; you have 15 old battleships that to be scrapped, and those torpedoes are short, I suppose, and the the same length as these, are they not?

Admiral McVay. No. sir.

Mr. Kelley. How much do you want for torpedoes on these sl Admiral McVay. We will spend \$1,800,000 to complete the marine program.

Mr. Kelley. After the 1st of July?

Admiral McVay. Yes. sir.

Mr. Kelley. Does that include these fleet submarines?

Admiral TAYLOR. No. sir. Of the fleet submarines, there are building at Portsmouth, and they will cost in the end about \$4,00 apiece, at least, those are the bids we get from outside people, ar thought we ought to have next year about \$3.250,000 to carry o work; in other words, we would carry on the work at a four-year and that is about the rate at which the work has been proce so far.

Mr. Kelley. \$3,250,000 for the three?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. And you will need all of that next year? Admiral Taylor. Yes, sir. It will take \$12,000,000 for the ships, and we are counting on using \$3,250,000 for the three year.

Mr. Kelley. Will it take \$12,000,000?

Admiral TAYLOR. \$12,000,000 is the total cost. I might say those vessels are of a new type, and the fleet is very anxious t them in service for the purpose of developing tactics and all that of thing.

Mr. Kelley. Are these engines known to work all right?

Admiral Robison. They are the best engines there are. Durit war the Germans developed a submarine engine in much the way that we developed the Liberty engine; they brought togeth the talent they had in Diesel engine building, they combined all ntents, all their experience, and evolved an engine which we have en able to duplicate. We believe that this engine, which is an merican product—it is made in St. Louis—is as good an engine as be one the Germans have been making.

Mr. Kelley. Why would it not be better to finish one and see

whether it is all right before you spend so much money?

Admiral Robison. You refer to the engine?

Mr. Kelley. Yes.

Admiral Robison. We have.

Mr. Kelley. You know it is all right?

Admiral Robison. Yes; I know it is all right. I do not think it is ossible that any engine to-day, of the Diesel engine type, will be onsidered 20 years hence to be satisfactory.

Mr. Kelley. Oh, no. How does the cost of these compare with the

ther fleet submarines we have?

Admiral Taylor. They are approximately double the displacement nd double the cost. The other fleet submarine cost about \$1,500,000, at they are vessels of something over 1,000 tons, and they were conracted for before the war, while these vessels are entirely different. These are of our own design and are the first fleet submarines we have mdertaken to design.

Mr. Kelley. Admiral McVay, how much are you interested in

hese three?

Admiral McVay. These are included in the others.

Mr. Kelley. Admiral how much money have you unexpended as

if the last available date?

Admiral Taylor. For increase of the Navy, construction and mainenance, \$14,350,000; that was as of the 1st of March, as closely as re can estimate it.

Mr. Kelley. You mean unexpended or unobligated?

Admiral Taylor, Unexpended.

Mr. Kelley. That is the cash on hand on that date?

Admiral Taylor. That is the money which has not gone out of mur construction and maintenance appropriation, but it is all oblirated and more than obligated.

Mr. Kelley. How much did you have appropriated last year? Admiral Taylor. Under construction and maintenance, \$53,000,000, ir: and we had a balance on the 30th of June of \$5,117,000.

Mr. Kelley. What other building funds have you besides this? Admiral TAYLOR. The submarines, sir, "Increase of the Navy, orpedo boats."

Mr. Kelley. And how much did you have on hand on March 1

n that fund?

Admiral TAYLOR. \$6,278,000.

EMERGENCY FUND.

Mr. Kelley. You have another fund, have you not, an emergency und, and how much have you in that fund?

Admiral Taylor. You mean the \$350,000,000 fund?

Mr. Kelley. Yes. Admiral Taylor. We expect to have a little balance in time; that s, when we are paid back from the contractors, but at present there

is practically nothing in that fund; I think the nominal balance \$200,000 or \$300,000 of our allotment.

Mr. Kelley. Then, all the funds which you and Admiral B

son have-

Admiral Taylor (interposing). There is one other fund, the w emergency fund, in which there is no balance so far as we are cerned. The only real money we have is in "Increase of the Na

Mr. Kelley. The total is \$20,628,000, and that represents e dollar you can get your hands on legally for shipbuilding?

Admiral Taylor. On the 1st of March so far as I know, sir: those minor exceptions of which I spoke.

Mr. Kelley. How much are you expecting to spend between

and the 1st of July on the Colorado?

Admiral Taylor. I have not the allotments between now an 1st of July. The total amount allotted to the Colorado and I ington together at the beginning of the year was \$4,900,000, of t the major portion has been spent. As you know, we had to an allotment to each ship and to each yard at the beginning of

Mr. Kelley. That was for the year, was it?

Admiral TAYLOR. Yes, sir.

Mr. Kelley, About \$400,000 a month. Would that be \$1,600,000 if you built along at the same rate, that is, at the ra

\$400,000 a month?

Admiral Taylor. Perhaps I can explain that by saying the allotted the New York Shipbuilding Corporation, which had two vessels and a battle cruiser, for expenditure during the \$8,900,000. We told them that if they spent all the money would not get any more, but as regards the individual ships had to be a little come and go within the yard allotment. The ance in that on the 1st of March was \$2,300,000, which we ha pected to spend on the ships building there, either the Colora Lexington, if she were converted. Of course, Mr. Chairman, I sl explain that that money is also over-obligated. We have li

Mr. Kelley (interposing). We will handle those in a sep way, I think, so let us keep to these funds for building pur This money available on the 1st of March is money with whi

build and not with which to settle.

Admiral Robison. Then I understand that all of our ol tions in connection with these vessels will be handled separa

Mr. Kelley That is what we want to do.

Admiral Taylor. There are pressing debts that would abs good deal of the \$20,000,000.

Mr. Kelley. How much would you say you would expend o

Colorado during the rest of the year?

Admiral Taylor. Well, we have been going along— Mr. Kelley (interposing). You have been spending \$400.

month and you were allotted \$4,900,000 for two ships.

Admiral Taylor. Yes; but a good deal of that money was at absorbed in paying the May and June bills and that could n uniformly distributed. At the beginning of this calendar ver figured an approximate expenditure on the Colorado of \$226. month: that is the rate at which we were spending.

Ir. Kelley. Then there are four months at about a quarter of a lion a month?

dmiral Taylor. If we kept on at the same rate.

Ir. Kelley. Do you want to drop back? Admiral Taylor. No; for the sake of economy we should go ahead. Ir. Kelley. Suppose that for these three months or four months run along about as we are now, just taking an easy calculation, t would be about \$1,000,000 on each of these ships?

dmiral Taylor. Approximately.

lr. Kelley. How much faster than that would you like to go? dmiral Taylor. We would like to go about three times as fast. slow up and pay the overhead of a big yard is a very expensive position for the Government.

r. Kelley. You probably would not want \$1,000,000 for each ship

rest of the year.

dmiral Taylor. Not for the rest of the year; no, sir; because

e is not enough money to do that.

r. Kelley. For each of these two ships you were spending \$225,a month, and for four months that would make \$1,000,000 on

ship?

dmiral Taylor. That was the rate at which we were spending, we tried to figure as closely as we could on the first of the year money which was to go out on all of these ships, but you must ember that taking the year as a whole we only have 40 per cent hat we would normally spend if we had a free hand on this whole gram. We gave a little preference to the Colorado, and the allott of that money was one of the most difficult jobs we have ever

r. Kelley. You have been very considerate of the business situain the country, and it has been very helpful to us. Even if it s us a trifle more, the burden is so great that we appreciate the eration.

dmiral Taylor. All we did was to cut our coat to suit the cloth ıad.

BATTLE CRUISERS.

r. Kelley. You would not need anything for the battle cruisers ng the rest of the year?

lmiral Taylor. We are spending money on them every day, sir,

will until we get that bill through.

r. Kelley. Are you really going forward with the construction? Imiral Taylor. No. sir: we have suspended everything, but we be prepared to resume the work, and we can not help spending tle bit on them.

r. Kelley. Did not Mr. Butler say he would put that through

iptly!

lmiral Taylor. I think they expect to do it promptly. r. Kelley. So it would be a rather negligible amount?

lmiral Taylor. Unless we get the money to pay for scrapping ould not be a large sum; no, sir.

. French. How does it run in comparison with ships being built r contract?

Imiral Taylor. I am referring to ships under contract.

Mr. Kelley. Suppose the bill should be passed within a month say, by the 1st of April: there would be three months of this year left, and it would take you that long to get your plans perfected.

Admiral Taylor. Yes, sir; we would not spend a large amount on

those ships this year.

Mr. Kelley. So we can, in a general way, just eliminate that!

EXPENDITURES FOR MACHINERY,

Admiral Taylor. I would not say eliminate it, because the m chinery is going ahead, and the machinery will be practically w changed, and we would at once get the plans out which are necessit

Mr. Kelley. Let us get the amount necessary for the machinery.

Admiral Robison. You mean how little we can get along with! Mr. Kelley. Yes. During the rest of the year about how mu would you naturally expend?

Admiral Robison. For the two ships?

Mr. Kelley. For the Colorado and West Virginia you have \$2,000,000 down here; that will be about \$225,000 a month both for construction and machinery, so in a way it is included here, at would not that take care of you all right?

Admiral Taylor. We were spending on those ships, with the exce tion of the Ranger, which was practically suspended and very litt work going on-but on the other ships building under contract i were spending at the rate of from \$350,000 to \$500,000 a month.

Mr. Kelley. On these two?

Admiral Taylor. On the Lexington, Constellation, and Sarator They ran \$532,000, \$343,000, and \$348,000 a month.

Mr. Kelley. How would that be divided between machinery a

construction ?

Admiral Taylor. That would be approximately, as regards the on which we are spending \$350,000, about \$150,000 or \$200,000.

Admiral Robison. \$150,000 each is my figure.

Mr. Kelley. About how much will be required for machinery! the airplane carriers?

Admiral Robison. \$10,000 per calendar day.

Mr. Kelley. And there would probably be about three mon

left after you get authority to make the expenditures?

Admiral Taylor. Yes, sir. If the bill is not passed until the of April we will have the plans ready to resume work on them we promptly. We are working on the plans now, of course.

EXPENDITURES FOR THE FISCAL YEAR 1922.

Mr. Kelley. We will go ahead now with the expenditures for balance of this fiscal year. On the basis that these cruisers are go to be converted, how much will you require this year for going f ward with the work?

Admiral Taylor. For these two cruisers?

Mr. Kelley. Assuming now it will take some little time to your plans ready and there are only four months left altoget from the 1st of March.

Admiral Taylor. We would spend at least \$1,250,000 on those.

Mr. Kelley. On the two?

Admiral Taylor. Yes, sir; we could spend \$3,000,000 on the two

we had the money.

Mr. Kelley. There is no hurry or rush about this work. Let us the \$1,250,000 and see how we come out. You will not need to do nything the rest of this year on the airplane carriers.

Admiral McVay. I figured out about \$200,000 a month ought to

over that.

Mr. Kelley. We are only handling this fund now, anyhow. The 1,250,000 is for the two.

Admiral Taylor. That is the very minimum, sir.

Mr. Kelley. Now, on the scout cruisers, at what rate have you

en spending on them for the last eight months.

Admiral Taylor. The allotment for the year to the scout cruisers as \$13,150,000, which was at the rate of building them in six years, id we have been carrying on the work at that very slow rate. We would spend at least \$5,000,000 in this last four months.

Mr. Kelley. That is only a little bit faster than you have been

ailding them during the past year.

Admiral Taylor. Not very much. I must say it is somewhat ister because a lot of that allotment of \$13,150,000 was virtually one when it was allotted in paying back bills and paying up for aterials, so that we spent money faster the first part of the year ian we are spending it now, but you can see for yourself that the 13,000,000 would be a little over \$4,000,000 for the four months, and we carried the work on at that slow rate we would spend over 1,000,000 in the four months, and \$5,000,000 is a modest figure.

Mr. Kelley. Now, as to the auxiliaries, how much do you want to

mend on those?

Admiral Taylor. \$1,500,000 for the rest of the year, approxiately.

Mr. Kelley. That is for the five and includes the gunboat.

Admiral TAYLOR. Yes, sir.

Mr. Kelley. How much on the destroyers? That is out of another and, is it not?

Admiral Taylor. Yes; that comes out of the naval emergency and and is not a part of the balance we are considering.

Mr. Kelley. Then, as to the submarines, how much do you think

ou ought to have for the rest of the year on those?

Admiral Taylor. We were a little hampered about that. One of ne conditions which the contractor wished to introduce in connecon with the making of this lump-sum contract—I am referring now the E. B. Company, was that he should have a schedule of comletion so that the work would not dawdle. He wanted more than e were able to allot him with that balance available, so that we ould want to spend every penny of that during the rest of this par.

Mr. Kelley. Every penny of what?

Admiral Taylor. Of the balance we now have of \$6,000,000. If ou will look at those submarines, Governor, you will see that four of tem are nearly completed and we are very anxious to get those pats completed and clean them up, and we have allotted them tough money to finish them this spring.

Mr. Kelley. How much is that for the rest of the year?

Admiral Taylor. That is something like four or five hunds thousand dollars.

Mr. Kelley. I mean altogether for submarines.

Admiral TAYLOR. Altogether for the S boats and the fleet s marines, in round figures, it is \$6,000,000 for the last four mon of the year.

Mr. Kelley. That is crowding them along pretty fast, is it I Admiral Taylor. No, sir; you must remember that we \$14,197,000 available the 1st of July, but there was very little be done on the E. B. Company submarines until we came to this re agreement about a month ago, so although the work was not pended it was very nearly suspended, and in discussing the ma with the contractor, he said, "I can not afford to make a lumpcontract and then wait indefinitely until Congress appropriate money to finish these vessels." That was one of the difficult p of negotiation, and one point was that he wanted us to s \$5,000,000 on those vessels alone for the rest of the year, bu could only give him \$3,000,000.

Mr. Kelley. You want to spend the balance of this money for

rest of this fiscal year and clean them all up?

Admiral Taylor. No. sir: not clean them all up, but clean up four Lake boats. We need in addition to that \$6,000,000, \$12.00 more to finish all the S boats.

Mr. Kelley. That is for next year.

Admiral Taylor. Yes, sir.

Mr. Kelley. But you want to spend \$6,000,000. Admiral Taylor. Yes: in cleaning up the Lake boats and car on the work under the lump-sum contract.

Mr. Kelley. Is that all?

Admiral TAYLOR. That is all; yes, sir.

Mr. Kelley. That makes \$15,750,000 out of a total of \$20,628. Admiral Taylor. Yes, sir; and that is reducing them down.

Mr. Kelley. And then you figure you would not have a balar

over \$5,000,000 on the 1st of July.

Admiral Taylor. No. sir; we really ought not to have that ba We ought to get the work done. I am looking at it from the of view of getting the work done economically.

Mr. Chairman, I think you have overlooked one battleship.

Mr. Kelley. Is not the Maryland finished?

Admiral Taylor. Either the West Virginia or the Washington Mr. Kelley. No; we have those here—the Colorado, the Wes ginia, or the Washington-\$1,000,000 apiece.

Admiral Taylor. I do not like to question your arithmetic

there must be a mistake somewhere.

Mr. Kelley. It adds up all right.

Admiral Taylor. Have you included \$5,000,000 for the scout Mr. Kelley. \$5,000,000 for the scouts.

Admiral Taylor. And \$2,000,000 for the two battleships?

Mr. Kelley. And \$1,250,000 on the airplane carriers, and \$1.50 and \$6,000,000 on the submarines.

Admiral Taylor. Yes: that seems to be right. There are

odds and ends of bills yet to be paid.

Mr. Kelley. What about the bills that will come in on these that are to be scrapped; you are not paying any of those now?

Admiral Taylor. We are not paying anything we can avoid, but by are still coming in, and we still owe the money. The approxite total obligation outstanding the 1st of February was \$37,000,000. Let does not include the cost of scrapping. They are the conacts extant.

Mr. Kelley. Let me see if I have that straight. Suppose you dered material for one of the ships that is to be scrapped and the aterial is fabricated and not yet delivered, would not that be a

oper charge against the scrapping?

Admiral Taylor. That would be, and that is what we would spect to do; but until we get that authority these people are still asking material and delivering it and sending in the bills.

Mr. Kelley. And are you paying for that now?

Admiral Taylor. We have to pay for it. We are putting off all e can, but we have to pay some of it. It is a legal bill.

Mr. French. Why could not the fabrication of that material be

ld up?

Admiral Taylor. We have suspended all the work,

Mr. Kelley. That would be a proper charge against the loss from

e scrapping?

Admiral Taylor. Yes, sir. We are slowing that down to the very inimum; but if a man delivers the material he has a written conact, and there is the money there to pay him.

Mr. Kelley. And, of course, it is the same thing in the end to

e Government.

Admiral Taylor. Yes. We are stretching it as much as we can it we can not absolutely stop expenditures. Those obligations tant are in the neighborhood of \$37,000,000 for material, subntractors, and that kind of thing. In addition to that, we have e question of the fees to the shipbuilders, which will amount to ren or eight million dollars more.

Mr. Kelley. That is in the cost of the scrapping?

Admiral Taylor. Yes, sir; and in addition to that there is the st of the scrapping itself, inventorying, the general adjustments, a cost of sale, etc., and we have not been able to figure so far that a cost of the scrapping would be much, if any, under \$50,000,000; fact, my people insist it is going to be more, but I am rather timistic.

Tuesday, March 14, 1922.

Mr. Kelley. We have with us this morning Admiral McVay and assistants, of the Bureau of Ordnance. Admiral, we will follow suggested outline I sent you, because I suppose that will be the liest way to approach this. Admiral McVay. Yes, sir.

UNEXPENDED BALANCES ON HAND JULY 1, 1921.

Mr. Kelley. What are the unexpended balances you had on hand the various appropriations as of July 1, 1921? Admiral McVay. Increase of the Navy. armor and armament, ,726,775.02; increase of the Navy, ammunition, \$12,411,055.43; rease of the Navy, torpedo-boat destroyers, ordnance, \$12,828,-

745.36; increase of the Navy, torpedo-boat destroyers, torpedo assembly plant, Alexandria, Va., \$89,364.30; naval emergency fund, ordnance allotment, \$894.255.67; appropriations under ordnance for increase of the Navy, armor and armament, fiscal year 192, \$33,000,000.

Mr. Kelley. Did you have any money from any other sources?

Admiral McVay. To these appropriations should be added amounts returned from the War Department in adjustment of requisitions not completed, as follows: Increase of the Navy, armor am armament. \$196,927.20: increase of the Navy, torpedo-boat destroy ers, ordnance. \$2.844.948.60.

Mr. Kelley. Making a total available on the 1st of July, 1921, o how much?

Admiral McVAY. \$83.992,071.58.

UNEXPENDED BALANCES FEBRUARY 1, 1922.

Mr. Kelley. Give us substantially the same information for the

last available date, February 1 or March 1, 1922.

Admiral McVay. The last available date is February 1, 192 Balance under increase of the Navy, armor and armament, \$27.935 364.02; increase of the Navy, ammunition, \$6.956,762.94; increase of the Navy, torpedo-boat destroyers, ordnance, \$13,703,979.16; increase of the Navy, torpedo-boat destroyers, torpedo assembly plan Alexandria, Va., \$48,559.60; naval emergency fund, ordnance allo ment, \$937,992.26. That is higher than the balance last year account of a credit adjustment from the Bureau of Supplies at Accounts, where they found they had charged about \$100,000 two That makes a grand total of \$49,582,657.98.

OUTSTANDING CONTRACT OBLIGATIONS,

Mr. Kelley. The next item will represent your outstanding contract obligations under each of the appropriations reported.

tract obligations under each of the appropriations reported.
Admiral McVay. For ships to be completed: Increase of t
Navy, armor and armament, \$6,141,421.81; increase of the Nav
ammunition, \$2,467,301.58; increase of the Navy, torpedo-boat o
strovers, ordnance, \$1,529,209.04; increase of the Navy, torped
boat destroyers, torpedo assembly plant, Alexandria, Va., \$3,983.5
naval emergency fund, ordnance, \$564,384.

Mr. Kelley. That makes a total of all outstanding obligations

how much?

Admiral McVay, \$10,706,300.18. This is distributed by vessels a under vessels by objects outstanding and contract obligations ported under paragraph 6 hereof.

Mr. Kelley. That is the information you just gave?

Admiral McVay. That is tabulated below; yes, sir. There is note to that which I want to enter here: The total contract oblictions reported by the Bureau of Supplies and Accounts includes contracts, work on which has been suspended, and also contracts for no cellaneous manufacturing equipment and material incident to man facturing work at navy yards, the expense of which totals \$368,248.22, as opposed to the balance which we gave, because the have the bookkeeping data only, and we have distinguished between

e actual contracts which will have to be completed and those that rill be canceled.

Mr. Kelley. The sum which you gave a few moments ago, of \$10,-■6,300, represents contracts which must be completed?

Admiral McVay. Yes, sir.

CANCELLATION OF UNOBLIGATED CONTRACTS.

Mr. Kelley. And the other sum of \$25,000,000 represents conracts which will be canceled?

Admiral McVAY. Yes, sir.

Mr. Kelley. And that will involve a settlement with the contracors for the material that has been delivered and the question of payng for it would properly be chargeable to cancellation just the same s though it had not been delivered?

Admiral McVAY. No. sir.

Mr. Kelley. Well, suppose, for example, you have a certain numer of millions of dollars of supplies which you have purchased for he use of the ships that are being discontinued, but have not yet been aid for: in order to keep this record straight as of the time when the ancellation was made, it would seem to me that that item would be roperly charged against the cancellation and would be carried into lump sum for cancellation rather than loaded on to the Navy as a unning expense.

Admiral McVAY. I see what you mean and I am trying to see

thether we could handle it in that way.

Mr. Davis. What constitute the elements of a cancellation charge? Admiral McVay. I have explained to Governor Kelley that when sent out our orders on the 8th of February to suspend work, at the ame time we instructed the inspectors to make an inventory of all naterial in its various stages, and to report that to the bureau. In ddition to that, we had the larger manufacturers in the bureau and sked them to give us an itemized list of their standby charges. You e, the work is suspended, not stopped. Our instructions are to be ady to start it at any time in case it is necessary.

ELEMENTS CONSTITUTING A CANCELLATION CHARGE.

Mr. Davis. I should like to know, for my own satisfaction, what re the elements which constitute a cancellation charge complete?

Admiral McVay. The main elements would be payment of cost f manufacture up to the time the work is stopped.

Mr. Davis. It does not constitute any prospective profit on the

ontract or anything of that kind?

Admiral McVay. No. sir. In addition to that, the various plants ave to maintain a skeleton organization prepared to start the work.

Mr. Davis. That is an element?

Admiral McVay. That is an element that enters in. Those are the aly two elements that enter in. By the stoppage of the work we opped in ordnance an expenditure of about \$80,000 a day. The susension charge, so nearly as I can figure from the data I have obined, which has not yet been thrashed out before a board, is about 10,000 a day. In other words, instead of saving \$80,000 a day by suspension we are saving something like \$70,000 a day roughly. but

the suspension charge is regarded as a legitimate charge.

Mr. Davis. I am not questioning that. I just wanted for my information and for the record to show what were the elements coming within the meaning of a cancellation charge.

Admiral McVay. Yes, sir.

AMOUNT OUTSTANDING AGAINST UNCOMPLETED SHIPS.

Mr. Kelley. There are outstanding \$29.223.231.16 against all of these ships!

Admiral McVay. Yes, sir: under "Armor and armament."

Mr. Kelley. Of that \$29,223,231.16 some of the material has been delivered, but you do not know how much?

Admiral McVay. No: because the Bureau of Supplies and Accounts is paying bills as they come in.

BALANCE OVER AND ABOVE ALL CONTRACT OBLIGATIONS FOR SHIPS TO BE FINISHED

Mr. Kelley. Admiral, in order to get this information in one statement, as I understand it, the total unexpended balances on February 1, 1922, were \$49.582.657.98?

Admiral McVay. Yes, sir; under all appropriations.

Mr. Kelley. Of that sum, there will be required \$10,706,300.18 to take care of outstanding contract obligations upon the ships that are not to be discontinued, and it is estimated that of this amount you will require \$36,435.725 to complete the work on vessels that are not to be discarded?

Admiral McVay. Yes, sir; under all appropriations.

Mr. French. Do you mean that this amount is in addition to the \$10,000,000?

Mr. Kelley. That is in addition to the \$10,000,000, is it not?

Admiral McVay. Yes, sir.

Mr. French. This \$36,435,725 that Governor Kelley refers to pertains to money that may be appropriated during the coming fiscal year: is that right?

Admiral McVay. No. sir; we will not require an appropriation. Mr. French. It will be expended during the coming fiscal year?

Admiral McVay. Yes, sir; some of it.

Mr. Kelley. That is for the completion of all those projects, whether completed next year or not?

Admiral McVay. Yes, sir; the \$10,000,000 plus the \$36,000,000, in

round numbers.

Mr. Kelley. Then, the difference between the \$36,435.725 plus \$10,706,300.18 and the \$49,582,657.98 would give a balance of nearly \$2,500,000 which you would have over and above all your contract obligations for ships that are to be finished?

Admiral McVay. Yes, sir.

Mr. Kelley. We can start, then, with about \$2,500,000 as the balance there!

Admiral McVay. Yes, sir: that is, under different appropriations. Mr. Kelley. I am speaking of the sum total now, and it is a total of \$2,500,000 over and above all that will be necessary in your bureau to complete all the work on all the ships that are to be completed?

Admiral McVay. Yes, sir

Mr. Kelley. That does not include aircraft carriers, I suppose? Admiral McVay. No, sir.

Mr. Kelley. Because they are not now contract obligations.

Admiral McVay. No, sir; that is true.

Mr. Byrnes. As I understand it, when you get through, or have completed all that are in process of construction, you will have a balance of practically \$2.500,000?

Admiral McVAY. Yes, sir.

AMOUNT REQUIRED FOR BALANCE OF THIS FISCAL YEAR AND NEXT YEAR.

Mr. Kelley. Of the \$49,582,657.98, which you had on hand on the tst of February, how much will be required for the balance of this iscal year and how much will be required for next year?

Admiral McVay. I will supply that for the record. Approxinately \$4,800,000 for the balance of this fiscal year and approxi-

nately \$31,000,000 for next year.

Mr. Kelley. Of the \$10.706,300.18 you propose to spend for fire ontrol and optical instruments \$1,639,700.50?

Admiral McVay. Yes, sir; for battleships.

AMOUNT INVOLVED IN CONTRACTS UPON VESSELS TO BE FURNISHED.

Mr. Kelley. Of the \$49,582.657.98, \$10,706,300.18 is tied up in conracts upon vessels that are not to be stopped?

Admiral McVay. Yes, sir.

Mr. Kelley. You will put in the record a statement showing how nuch of the \$10,706,300.18 will be required during the balance of this iscal year?

Admiral McVay. Yes, sir; approximately \$2,300,000.

AMOUNTS REQUIRED TO FULFILL ALL OUTSTANDING CONTRACTS NOT TO BE CANCELED.

Mr. Kelley. The next is the distribution of the amounts estimated as necessary to finish all outstanding contracts that are not to be canceled, amounting in all to \$36,435,725?

Admiral McVay. Yes, sir.

Mr. Kelley. You will put in the record a statement showing the part of that which will be needed during the coming fiscal year, from July 1 on?

Admiral McVay. Yes. sir; approximately \$22,500,000 for contract

payments and work at navy yards.

Mr. Kelley. Of this amount, \$36,435,725, the contracts are not yet placed, and some of it to be done in the navy yards and Government plants?

Admiral McVay. Yes, sir.

Mr. Kelley. And some by contract; but if done by contract, the contracts are not yet made?

Admiral McVay. No. sir.

AMOUNT REQUIRED FOR BALANCE OF FISCAL YEAR FOR UNCANCELED CONTRACTS.

Mr. Kelley. Would any part of this \$36,435,725 be required durng the balance of this fiscal year?

Admiral McVay. Yes; we are using that right along. Mr. Kelley. In the navy yards?

Admiral McVay. Yes, sir.

Mr. Kelley. What part of that amount? Admiral McVay. We will have to put that in the same as the other. We could answer that roughly by saying \$450,000 a month under armor and armament; under ammunition we are running about \$94,000 a month; under torpedo-boat destroyers we are running about \$276,000 a month; and under the other appropriations the work is about finished.

Mr. Kelley. At that rate you would need something over \$4,000,000 out of this fund for the remainder of the year?

Admiral McVay. Yes, sir.

FINANCIAL STATUS OF BUREAU JULY 1, 1922.

Mr. Kelley. So there would be a balance of approximately \$2. 000,000 of this amount and whatever balance there was from the \$10,000,000 which represents contract obligations, plus the \$2.500,000 general surplus over all. That would represent about your financial situation on the 1st of July, would it not; and to make that perfectly accurate put in at this point a statement showing your financial condition on July 1, with the understanding as to cancellations that we have talked of. The main thing we want is your financial situation on the 1st of next July.

Admiral McVAY. Very well.

Extimated status as of July 1, 1922, of ordnance appropriations for new ships to be completed.

These figures are based upon the assumption that all outstanding obligations against the appropriations named, other than those specifically allotted to the ships to be completed, are to be transferred to a special "scrapping" appropriation; and, further, that the appropriations named are to be reimbursed from the special "scrapping" appropriation for all expenditures incurred and parments made since February 1, 1922, other than those incurred and made specifcally on account of the ships to be completed.

Appropriation.	r cash , balance as	contract obligations on July 1, 1922.	Estimated as necessary to complete in excess of outstand- ing con- tract obli- gations July 1, 1922.	required	Estimated as required for the fiscal year 1923.	Estimated total required after July 1, 1923.
Increase of the Navy: Armor and armament	\$25 654 576	\$6 210 211	 84 , 895, 535	ell 105 748	810 202 107	\$802,349
Ammunition	6, 211, 770		3, 241, 220	5, 364, 994	5, 062, 969	302,05
Torpedo boat destroyers (Ordnance)	12, 469, 912	S, 671, 442	17, 432, 747	26, 104, 189	15, 750, 337	10, 353, 558
(torpedo a s s e m b l y plant, Alexandria, Va.).	44, 576	ļ	!	! 	ļ	ļ
Naval emergency fund :Ord- nauce)	373,60%	 	·	1 	 	
Total	41,784,442	17, 005, 427	25, 569, 502	42, 574, 929	31,016,503	11, 556, 456
		,	·=- 			

. Appropriation.	Estimated cash balance as of July 1, 1922.	Estimated contract obligations on July 1, 1922.	Estimated as necessary to complete in excess of outstand- ing con- tract obli- gations July 1, 1922.	estimated required	Estimated as required for the fiscal year 1923.	Estimated total required after July 1, 1923.
follows: Increase of the Navy— Armor and Arma-						
ment— Battleships Scout cruisers Destroyers Submarines		\$1,679,916 1,772,624 2,293,471 464,200	\$1,769,795 1,356,621 298,607 1,333,513	\$3, 449, 711 3, 129, 245 2, 592, 078 1, 797, 713	\$2,955,631 3,129,245 2,592,078 1,389,244	\$494, 080 408, 469
Tenders and auxili- aries			136, 999	136, 999	136, 999	
Total		6, 210, 211	4, 895, 535	11, 105, 746	10, 203, 197	902, 549
Ammunition— Battleships Scout cruisers		1, 974, 710 149, 064	2, 212, 845 1, 028, 375	4, 187, 555 1, 177, 439	3, 964, 130 1, 098, 839	223, 425 78, 600
Total		2, 123, 774	3, 241, 220	5, 364, 994	5, 062, 969	302, 025
Torpedo boat destroyers (ordnance)		8, 671, 442	17, 432, 747	26, 104, 189	15, 750, 337	10, 353, 852
Total, all appropriations.		17, 005, 427	25, 569, 502	42, 574, 929	31, 016, 503	11, 558, 426

AMOUNT TO BE EXPENDED NEXT YEAR ON BATTLESHIPS.

Mr. Kelley. Are you ready to go into the question of construction for next year on the ships that are not be scrapped or had you, Admiral Taylor, and the committee better have a discussion about that !

Admiral McVay. That is all covered in here; except as to the airplane carriers, that is all in here now.

Mr. Kelley. How much do you want to spend next year on the

battleships?

Admiral McVay. Under "armor and armament," approximately \$2.900,000; increase of the Navy, ammunition, \$3,900,000.

Mr. Kelley. That is for what ships?

Admiral McVAY. That is for the Colorado, the Washington, or West Virginia.

Mr. Kelley. That is for two battleships?

Admiral McVAY. Yes, sir.

Mr. Kelley. Have you the ammunition for the Maryland?

Admiral McVay. We have that; yes, sir; except the 5-inch 25 calmer and some special type 16-inch.

Mr. Kelley. And that is the amount included in here of \$266,400,

is it?

Captain PINNEY. That is, the ammunition details for it and the **projectiles** are included in the item above.

Mr. Kelley. So this is the total amount you will need for the

three battleships next year?
Admiral McVay. Yes, sir. Approximately as follows, for contract payments and work at navy yards: Armor and armament, \$2,900,000; ammunition, \$3,900,000; total, \$6,800,000.

Mr. Kelley. Showing the amount to be spent on these three buttleships next year?

Admiral McVAY. Yes sir; obligations already incurred and new obligations.

Mr. Kelley. That is, for next year? Admiral McVay. Yes, sir.

Mr. Kelley. The proportion that is in the \$10,000,000 should be added here?

Admiral McVay. Yes, sir; we will fix that.

Mr. Kelley. There are certain items here that are under contract obligations and the others under navy yards?

Admiral McVay. Yes, sir.

Mr. Kelley. And you have to put the two together in order to get the total for the battleships?

Admiral McVAY. Yes, sir.

Mr. Kelley. Then suppose we confine this to the navy yards because this amount is tied up in contracts and that will take care of itself.

Admiral McVay, Yes, sir. For work at navy yards on battleships in 1923: Armor and armament, approximately \$1,100,000; ammunition, approximately \$862,000; total, approximately \$1,962,000.

AMOUNT TO BE EXPENDED ON SCOUT CRUISERS.

Mr. Kelley. How much for the scout cruisers?

Admiral McVay. At navy yards and stations, for increase of the Navy, armor, and armament, \$1,102,000; increase of the Navy, ammunition, \$260.500.

Mr. Kelley. The sum of those two items would represent what

vou require for the scout cruisers?

Admiral McVay. Yes, sir; for work at yards and stations for 1923. That is chiefly for special ammunition and some mounts.

Mr. Kelley. This is made necessary by changing the guns from 3-inch to 5-inch? I think you said the other day you had the 3-inch guns and mounts but it was decided to replace those with 5-inch guns.

Admiral McVay. That was on the battleships, the new battleships.

Mr. Kelley. These are not 3-inch guns, are they?

Admiral McVay. No, sir. The scout cruisers have 3-inch guns.

Mr. Kelley, So that has not been changed?

Admiral McVay, No, sir; we are just changing them on the battleships.

Mr. Kelley. I thought you said the other day you had plenty of 3-inch guns and 3-inch mounts.

Admiral McVay. Yes; and we are putting them on there.

Mr. Kelley. They are paid for, too, are they not? Admiral McVay. Yes, sir.

Mr. Kelley. You have here \$1,019,000 for the mounts.

Admiral McVay, I will tell you what you may have in mind, the fact that we found that those vessels were very much under-batteried in comparison with similar vessels that they would probably go u against and we put four more guns on them.

Mr. Kelley. Of the larger type!

Admiral McVay. No: 6-inch guns. But we put them in an inclosed mount because the emplacements have to be so located that he blast interference would make them untenable; so we have made special hood inclosing the whole mount, so that when a gun is the blast would not knock out the members of the crew. That, E think, is what you meant. They are the same kind of guns.

AMOUNT TO BE EXPENDED ON DESTROYERS.

Mr. Kelley. Under destroyers it appears that you are going to y \$22,293,112 worth of torpedo outfits. Over how many years would you probably figure on spreading that?

Admiral McVay. Between four and five years in our plants alone,

nut by giving contracts to the Bliss people it would be a much shorter

Mr. Kelley. What is the capacity of the Alexandria plant?

Admiral McVay. About 175 a year.

Mr. Kelley. That was a war plant. Are you figuring on clos-

Admiral McVay. No, sir.

Mr. Kelley. You intend to keep that going?

Admiral McVay. Yes, sir.

Mr. Kelley. Why not close it down?

Admiral McVay. I do not think it is wise to close any of the plants mder the shortage.

Mr. Kelley. In the matter of making torpedoes?

Admiral McVAY. Yes, sir; I think it would be quite wrong.

Mr. Kelley. The only thing that is left in our inquiry is with refrence to the completed material on hand, and the possibility of ransfer from one to another?

Admiral McVAY. We do that all the time.

Mr. Kelley. You are not going forward with the fabrication of inv material for vessels that are not to be finished?

Admiral McVay. It is all suspended, except a very few minor

Mr. Kelley. Items which you can use for some other ships?

Admiral McVay. Yes, sir; where it would cost us as much or more o stop as to go ahead.

Mr. Kelley. Such exceptions as exist to the rule you have laid lown are specified in this table, practically?

Admiral McVAY. Yes, sir.

Friday, March 17, 1922.

HYDROGRAPHIC OFFICE.

TATEMENTS OF CAPT. FREDERIC B. BASSETT, JR., HYDROG-RAPHER OF THE NAVY, AND MR. A. F. BOGUE, CIVILIAN ASSISTANT.

SALARIES.

Mr. Kelley. We have with us Captain Bassett, head of the lydrographic Office of the Navy Department, and Mr. Bogue, his ssistant. We have here the salaries of the Hydrographic Office. tre any increases in salaries suggested or increases in the number f employees?

Captain Basserr. There are no increases in the statutory roll (in the temporary roll; in fact, the estimate for next year in ever case is less than or the same as for last year.

Mr. Kelley. You have reduced the number in one case from 1

to 73

Captain Bassett. Yes, sir.

Mr. Kelley. You take out one at \$900?

Captain Basserr. Yes, sir; two at \$1,000 each and two down b low at \$900.

Mr. Byrnes. There is a reduction of two at \$1,000 each; one : \$720; two at \$900 each: one at \$800; and two at \$1.000 each?

Captain Bassett. Yes, sir.

Mr. Kelley. You are doing very nicely; there are no increas and those are to come out.

Captain Bassett. That is the way it stands, and the total is \$100,540 for the statutory roll, plus \$109,490 for the temporary roll.

Mr. Kelley. Let us take the statutory force first. You are askit

for how many?

Captain Bassett. Our preliminary estimate was \$120,760, whi was the same as for last year, but that was reduced 5 per cent l direction of the department at the instance of the Bureau of the Budget, and it stands now at \$109,540.

Mr. Kelley. That is the permanent roll?

Captain Bassett. Yes, sir.

Mr. Kelley. Those are all right and we could not change the if we wanted to, because that is fixed by law and we do not ma

any new law. What about the lump-sum roll?

Captain Bassert. Our preliminary estimate to the departme was \$110,000, but the final estimate is \$109,490. Last year we h \$110,000, so it is less in this case than it was last year. That was last year. That was reduced by 5 per cent.

Mr. Byrnes. Was it not \$111,000 last year?

Captain Bassett. No. sir; \$110,000.

Mr. Bogue. The appropriation was \$110,000, but for the act

number of people when we made it up it was \$111.250.

Mr. Kelley. The employees on the temporary roll were taken during the war, and we supposed that when the war was over the would be discontinued. What is the need of keeping them now?

DUTIES OF OFFICE.

Captain Bassett. The work of the Hydrographic Office is deperent in a very small degree only on the size of the Navy. In a flwords, the Hydrographic Office exists by act of Congress, and it to supply charts and nautical books primarily to the Navy; that the original organic act of 1837. I think; subsequently, to fill wants of merchant shipping—which has no way of producing own charts—Congress directed that the Hydrographic Office sup to the merchant ships, "at the cost of printing and paper," the nesary charts and nautical books, so that the function of the Hydrographic Office is twofold, primarily to provide the Navy with chard and nautical books, sailing directions, pilot charts, etc., for use in the of peace and in time of war, and, secondarily, to provide these sepublications to the merchant marine. In time of war, of course, in

panifestly essential that the control of such activities should be under the Navy Department; that is, the supply of charts, nautical publications, etc., as many of these are confidential, and they should not be sublished by anyone else. As regards the merchant marine, they have no other way of getting charts through United States sources except from the Hydrographic Office, or its agents, although for our own pasts they can get charts from the Coast and Geodetic Survey.

Mr. Kelley. Do you furnish these charts free?

Captain Basserr. No; we furnish them at the cost of printing and imper—charts and nautical books.

Mr. KELLEY. But you do not charge anything for the force?

Captain Basserr. No, sir; the overhead must be maintained in any ase. It makes very little difference whether we print 100 or 200 popies of a chart, the cost is very little, and we get enough in, and turn into the Treasury enough, to pay for the printing and the paper, which is all Congress required in this matter.

Mr. Kelley. Why do you need to have more employees unless you

make charts that you would not make for the Navy?

Captain Basserr. The point is, in the first place, that out of a force if 173 in my office only 23 are clerical, the others being all technical nen. We are at work first, on producing charts from our own surreys, and, second, the reproduction of charts prepared by foreign Governments. Every Government sends to our Hydrographic Office wo copies of every new chart it produces, and we, in turn, do the new to all Governments that reciprocate.

Mr. Kelley. Suppose we did not furnish charts to the merchant rervice, how much of this temporary force could you do away with? Captain Bassett. It makes no difference, because the charts have

be prepared anyway.

Mr. Kelley. Tell us what work you are doing that you did not do

refore the war.

Captain Basserr. I will have to go into a little detail in order to all you what the principal work is. The Hydrographic Office issues to naval vessels charts printed from 4,344 copper or zinc plates.

Mr. Kelley. Would all of those be needed for the Navy Depart-

nent?

Captain Basserr. Yes, sir; every one of them.

Mr. Kelley. How did you get along before the war when you did

not have your temporary roll?

Captain Bassett. We have just started in recent years the reproluction of foreign charts—that is to say, we get a paper chart from the British hydrographic office, we will say, and we take that chart and nake corrections up to date and photograph it on zinc plates, our dea being ultimate independence of Great Britain in the production of charts. At the present time we are dependent on Great Britain for charts printed from 1,109 plates.

Mr. Kelley. Where are these locations?

DEPENDENCY ON GREAT BRITAIN FOR CHARTS.

Captain Bassett. I have here in my hands a chart which shows paphically our dependence on Great Britain for charts from all wer the world. The percentages are as follows: Australian waters, 5 per cent; Sweden. Norway, Denmark, Germany, Holland, France,

Spain, Portugal, and the British Isles, 74.5 per cent: Mediterra Sea, 66.5 per cent; Africa and African waters, 28.5 per cent; It Arabia, and the Indian Ocean, 27.8 per cent.

Mr. Kelley. It is not your idea, Captain, to set up a hydrogra office here which would make original surveys all over the work

Captain Bassett. No, sir. We do not anticipate making all original surveys, but we hope by photographic processes to repro all the charts in the world, making our own plates, then keep them up to date, so we will be independent of every country charts.

Mr. Kelley. So you will always have to depend on the Bri

or somebody else for charts?

Captain Bassett. But we will not be dependent on them if make the plates ourselves. Within recent years there has been de oped the process of photozincography. You take a photograph paper chart such as sent us by foreign hydrographic offices on ag plate: then that glass plate is coated with asphaltum and men ca "negative cutters" go over all the outlines and trace them. because some of the charts we get from Great Britain and other count are not as clear as they should be and do not photograph well, so t have to be recut. When these are recut and are all ready they photographed by a special process on a thin zinc plate, and ont zinc plate we have a positive—not a negative, but a positive—h which we subsequently print our charts of that particular area. can make by that process, which was only perfected in 1913, 1. prints an hour, whereas by the old copper-plate process you can o print about 80 a day, because a flat copper plate has to be in every time a print is made, then cleaned off, then inked again be making another impression, etc.

Our object is to make ourselves independent of the British Gow ment or any foreign government in case the supply of charts is nied us. We did have trouble in getting charts from England c ing the war, and we would not have gotten them at all if we had been associated with them. In one instance during the World we had long delay in delivery of charts from British sources.

Mr. Kelley. That is, they did not furnish them in sufficient n

bers so that you could supply your service?

Captain Basserr. They could not furnish them in sufficient poer.

Mr. Kelley. So you find you are obliged to have their charts make reproductions from them?

Captain Bassett. Yes, sir.

Mr. Kelley. Would it not be feasible to enter into some arrament with Great Britain whereby they would supply you with the charts of the kind they make?

Captain Basserr. That would be all right in time of peace, by

time of trouble you would not be able to get them.

Mr. Kelley. Then you would have to build up your departs in time of trouble to make reproductions?

Captain Basserr. Yes; and it would be impossible.

Mr. Kelley. Why?

Captain Bassett. Because it will be a matter of seven or expears, it has been figured by our experts, before we can reprote the present 1,109 charts that we are now obliged to purchase:

tish sources. We also got very far behind during the war through fault of our own, and there are many corrections that have to be le on our own plates. There have been changes in lights, changes he depths of water, and everything of that kind, and during the it was impossible to keep up to date as the information did not e in, so that now we are flooded with post-war work, and we have we can do to keep our present plates up to date without making reproductions. Furthermore, it is impossible to obtain com-nt men at the wages paid. A large lump sum would not help nout a raise in salaries.

Ir. Kelley. How do you correct your charts?

aptain Basserr. We have a correspondence with over 5,000 mari-In my office now we have a card index of 5,000 mariners who periodically sending us nautical information.

r. Kelley. I get the idea. Our ships which are out all over the ld make a report to you whenever they find a chart in error? iptain Bassett. Yes; by our own mariners, also by foreign mari-

When information is obtained in this way it is immediately rted to us and we issue it the same day, being sent out as a Daily norandum, and we follow that up every Wednesday with a kly Bulletin, and every Saturday we get out what is known as Notice to Mariners, and this notice is by all odds a most vale asset to the maritime world.

FEE CHARGED FOR CHARTS TO MERCHANT MARINE.

r. Kelley. Could you not sell these charts to the Shipping Board the private shipping interests for enough to cover a reasonable nse of reproduction?

ptain Bassett. As a matter of fact, we are charging—

r. Kelley (interposing). Suppose you did not have them for where would the International Mercantile Co. get its charts? ptain Bassett. Either they would have to be produced by us or company would have to buy them from the British.

. Kelley. Why do you not charge them a reasonable price which

d cover the cost of reproduction?

: Bogue. We do sell them.

. Kelley. But only at the cost of printing and paper.

. Bogue. That is the law, and we sell none over 70 cents while British charge over a dollar. They have just raised their prices. . Kelley. Why can you not make this thing self-supporting if a good thing and if it is needed by all the merchant marine? ptain Bassett. If the merchant marine bill passes the demand harts will be enormous.

retary Denby. It is about on a par with the lightships, and you I not want to make the merchant marine pay for the lightships. . Kelley. If we could cut off a lot of these things which are a

derable naval burden—-

. Byrnes (interposing). It would make a considerable reducn the bill.

. Kelley. And I think that would be a good thing to do. Byrnes. The act was simply passed to aid the merchant marine mall way by giving them these charts.

Captain Basserr. But if you aid the merchant marine you are a ing the Nation.

Mr. Byrnes. I am not discussing that; I am stating what was

dently the object, and not discussing the merits of the thing. Captain Bassett. Our charts do not cost more than half what British charts cost at the present time, but I want to particula emphasize the fact that we are dependent on Great Britain for 1. charts, and that the force we now have is barely able to keep p with the work of correcting the charts, and when I say "correct the charts" I mean correcting the plates. There is a tremend amount of work connected with the correction of these plates from the information we receive from all parts of the world. a chart yesterday that was in its fifty-second edition: that means t the plate had been corrected and the old paper prints made fr it destroyed or canceled 52 times. If I remember correctly, t was a chart of the West Indies, where we have a great many chan all the time. One chart is in its one hundred and thirty-ninth editi I could talk a long time on this point, but I do not want to detain committee any longer than necessary. However, I would like make a few remarks in general about chart correction.

CHARTS MADE BY COAST AND GEODETIC SURVEY.

Mr. Kelley. Before you go into that, let me ask you this questi

Is anybody else making this kind of chart in our Government!
Captain Bassett. By law the Coast and Geodetic Survey ma all the charts for the United States waters and for the United Sta foreign possessions.

Mr. Kelley. And you get your charts from them? Captain Basserr. We get charts from 642 plates from them.

Mr. Kelley. You do not duplicate anything our own Governm is doing?

Captain Bassett. No. sir.

Mr. Kelley. Outside the 3-mile limit is really where your w

Captain Bassett. Yes, sir; and we have the foreign countries

Mr. Kelley. I say, outside the 3-mile limit.

Captain Basserr. Yes, sir: that is correct. May I add some ures? In the Hydrographic Office we have our own chart plate the number of 2,593; we buy from British sources and supply naval vessels 1.109 charts, and we get for naval vessels, free charge, charts from 642 plates from the Coast and Geodetic Sur making a total of charts from 4.344 plates.

REDUCTION OF STATUTORY ROLL.

Mr. Kelley. In 1919 you spent about \$190,000 for what you now asking \$109,000, so you are coming down some, are you i You are evidently reducing your force or reducing the pay.

Mr. Byrnes. As a matter of fact, he has reduced it below the

propriation for 1915.

Mr. Bogue. The statutory roll has been greatly reduced, while other roll has been increased to a certain extent. This year we dropping off 12 positions; in other words, we are losing 12 peopl the lower grades. It was not conceded that the office should red

it it was done on account of the 5 per cent cut being required by the adget Bureau.

Mr. Byrnes. You have increased your lump-sum roll?

Mr. Bogue. No; it is reduced over last year.

Captain Basserr. All of our appropriations are reduced this year. Mr. Kelley. Are you reducing the number of employees or the

Captain Basserr. We are reducing the number by 12.

Mr. Kelley. That reduction is made in the statutory roll? Captain Basserr. Yes, sir; the lump-sum roll will be approxiately the same next year.

Mr. Kelley. You want the same number of men and at the same

Mr. Bogue. Yes, sir. It might be added that the pay is not comensurate with the character of work. We can not now get men of e proper caliber for that pay. That is one of our worst difficulties. he Coast and Geodetic Survey does similar work and the pay of eir employees averages much higher.

Captain Bassett. At the proper time I would like to read a short tter relating to increases in the salaries in the Hydrographic Office

id insert it in the record.

Mr. Bogue. In connection with your inquiry a little while ago, why e would not cut the force down, you must bear in mind that we ive 4,600 charts on issue; about 1,109 of those are British charts, id we must make reproductions of them to issue to our Navy. As w well know, our Navy cruises all over the world and not only on r own coasts. The demand for charts on our office is from six to n times greater than any prewar demand.

Mr. Kelley. Suppose we put a price on these charts which would clude the overhead; you could sell them just the same, could you

)t ?

Mr. Bogue. There is another feature that should be considered. he Navy must have the charts, and it costs considerable to make e plates for the charts. For example, if you make a survey, it costs om \$50,000 to \$100,000 for the data for perhaps one chart, but hen you once have the chart plate for the Navy there is very little pense for printing; it is merely a matter of putting it on the press hen you can and running off one or a dozen in 10 or 15 minutes, d the additional cost is for the paper only, which averages about cents per chart.

LETTERS RECOMMENDING INCREASES IN SALARIES.

Mr. Kelley. Captain, I believe you wanted to put a statement in e record.

Captain Bassett. It is a letter from the Hydrographic Office to the cretary of the Navy recommending an increase of salaries. I buld like to introduce it. It bears the approval of the Bureau of avigation and of the Secretary of the Navy, and there accompanies a letter from the Director of the Budget Bureau.

(The papers referred to follow:)

DECEMBER 9, 1921.

: Secretary of the Navy.

a: Bureau of Navigation and Budget officer for Navy Department. bject: Pay of employees in the Hydrographic Office, United States Coast and Geodetic Survey, and United States Geological Survey.

Reference: The Budget for the service of the fiscal year ending June 3 Inclosure: (A) Supplementary report for Hydrographic Office made in ance with salaries allowed similar positions in the Coast and Geoletic; and Geological Survey.

1. With the publication of the Budget, it has come to the attention hydrographer that the present discrepancies in pay between employees Hydrographic Office and in the Coast and Geodetic Survey and the Geo Survey doing similar work will not only be continued but will be increase

2. In 1920 the hydrographer recommended increases to bring the salar the employees of the Hydrographic Office up to those of the employees of departments of the Government doing the same work. These increases admitted to be only fair, but were denied on the ground of economy.

Again in 1921 the hydrographer submitted estimates to include increabring the pay of the employees of the Hydrographic Office up to that Coast and Geodetic Survey and Geological Survey. He was directed to stitute estimates equal to those of the previous year, and then to cut the mates 5 per cent. This was done and the estimates of the Hydrographic reduced accordingly. Meanwhile, in two other departments, Interior and merce, the Geological Survey and the Coast and Geodetic Survey not of tained their previous increases but have obtained approval of estimate carry further increases over their previous salaries, which were already than the present salaries paid for similar work by the Hydrographic Office

3. To indicate clearly the injustice being done to the employees of the I graphic Office, the following tables taken from the Budget are submitted, tables, for the sake of brevity only, include a section of the employees, reference to the Budget will show that these tables are typical of the salary list of the three institutions.

Department of the N Hydrographic Offi	Department of the Interior, Geological Survey.	Department of Commerce, Coast and Geodetic Survey.
Technical aide, at \$2,400 sections (technical), at	1 chief topographic engineer, at \$5,000; 1 division topographic engineer, at \$4,500.	Cartographers: 1, at \$5,040; 2, at \$4,750; 1, at \$4,500.
\$1,800; 5, at \$1,600; 8,	2 cartographers, at \$3,600; 5 assistant cartographers, at \$3,000.	Associate cartographers: 2, at \$3,800; 3, at \$3,600; 3, at \$3,300.
4, at \$1,200. 1 hydrographic surveyor, 1 computer, at \$1,400. Note.—3, at \$1,000 : \$900, omitted.	4 junior cartographers, at \$2,400; 1 junior topographic engineer, at \$2,040; 4 cartographic draftsmen, at \$2,040.	Assistant cartographers: 2, at \$3,000; 3, at \$2,750; 3, at \$2,500; 3, at \$2,250; 3, at \$2,000.
3 apprentice draftsmen,	1 copyist topographic draftsman, at \$1,800; 2 copyist draftsmen,	unior cartographers, 4, at \$1,800 NOTE.—Replaces 2 topo- graphic and hydrographic drafts- men, at \$2,900; 3, at \$2,460; 6, at
		\$2,260; 6, at \$2,060; 3, at \$1,800; 6, at \$1,600; 6, at \$1,400; 2, at \$1,200; and 2 copyist draftsmen,
1 draftsman, at \$1,800. 7 draftsmen, at \$1,000.		at \$1,200, omitted. Chief chart corrector, at \$1,8004 chart correctors, at \$1,440 NOTE.—In lieu of 1 clerk, at
 -	. !	\$1,200; 2 topographic and hydrographic draftsmen, at \$1,200; and 2 copyist drafts-
Engravers: Chief, at \$2, \$1,800; 3, at \$1,600; 1.	;	men, at \$1,200. Copperplate engravers: 1 chief engraver, at \$3,000; 3 senior
6, at \$1,200. NOTE.—2, at \$1,000,		copporplate engravers, at \$2,880; 3, at \$2,760; and 3, at \$2,640; 3
\$720, omitted. Apprentice engravers: 1 1, at \$700.		master copperplate engravers, at \$2,400, and 3, at \$2,160; 2 apprentice copperplate en-
Plate printers: Chief at at \$1,200; 1, at \$1,000.	ı	gravers, at not exceeding \$1,200. Note.—Replaces 1 copper-
NOTE.—2, at \$900, a \$900, omitted. Apprentice plate print		plate engraver, at \$2,500; 2, at \$2,400; 3, at \$2,200; 3, at \$2,000; 2, at \$1,600; 3, at \$
\$700; 1, at \$600. Lithographers: Chief, at NOTE.—2, at \$1,000 o	! :	\$1.400; and engravers and apprentices at not exceeding \$1,000 omitted.

4. The total increase of the appropriation for the United S Coast and Geodetic Survey is approximately \$500,000, much of v is absorbed in increased salaries for the cartographic branch o

ast and Geodetic Survey. In the last few years the other branches the Coast and Geodetic Survey, corresponding to the hydrographic gineer, expert aide, and nautical experts of the Hydrographic fice, have already secured not only a handsome increase in pay but retired list and assimilated rank of commissioned officers of the nited States Navy. So, with the passage of this present budget, the tire force of the Coast and Geodetic Survey will be paid approxiately double that of similar ratings of the Hydrographic Office. 12 increase approved for the Coast and Geodetic Survey is greater and the entire present appropriation for the Hydrographic Office.

5. At the present moment, it would be to the financial advantage the oldest and best paid technical men in the Hydrographic Office resign and enter the Coast and Geodetic Survey, for in a short hile they would undoubtedly be getting more pay than in their resent positions in the Hydrographic Office and have the prospect promotion to positions with possibly twice the pay they are now

ceiving.

6. The only hold the Hydrographic Office has on these men is their nse of loyalty and pride in an institution they have done much to eate. The Hydrographer has appealed to this loyalty and pride hold the office together, but unless conditions are changed it seems appossible to prevent a great number of the engravers and draftsmen eking transfer to other departments. If they go it will be impossible to fill their places, and will practically stop chart production this office.

7. When the representative of the Budget Office visited the Hydro-raphic Office, inspected its work, saw the caliber of the employees, and was told and heard something of the history of the office and its aditions, he remarked to the Hydrographer that he had come present to cut, but after a thorough investigation he was ready to commend an increase, not only to carry on the present work, but to table the office to become independent of foreign hydrographic fices.

8. In view of the serious conditions outlined in this letter, I beve it to be my duty to bring them to the attention of the departent, for unless they are remedied it will be almost impossible for e Hydrographic Office to continue to function. I therefore request at, under the authority given by Executive order No. 3578, of ovember 8, 1921, to the Director of the Bureau of the Budget "to vise, reduce, or increase the estimates of the departments or establishments as submitted," he be requested to substitute the accompany-g estimate for the Hydrographic Office for the fiscal year 1923 for e estimates previously submitted.

The estimates submitted herewith are based upon the present numr of positions in the Hydrographic Office, tentatively classified in cordance with House bill No. 2921, known as the Wood bill.

The salaries carried in this estimate are much less than salaries ovided for similar work in the Coast Survey and Geological Survey. The Hydrographer is unwilling to admit the justice of the maining inequity in salaries, but submits this estimate in the hope affording immediate temporary relief to the employees of the ice and its branches and leaves the final rectification of all inualities in pay to any reclassification that is determined upon by a Congress.

L. R. DE STEIGUER.

Salaries, Hydrographic Office, submitted in lieu of estimates as appear on ps. 307 and 308 of Budget for 1923, based on tentative classification, as per Holbill No. 2921. April 21, 1921, known as the Wood bill.

Employees.		Enst.	Present for		
		Esti- ma:ed. 1923.	Esti- mated, 1922.	Rate	
Hydrographic engineer. Cartographers. Do	\$4,740 4,500 3,960	I 1	1 1		
Do	3,600	2	i	. 2	
DoAssociate cartographers	3,000 2,580	2	1 1	. 2	
Do	2, 460	11	9 2	. i	
Assistant cartographers Do.	1,860	¹²	3 9	. <u>1</u>	
Junior cartographers Do Chief engraver	1,680 3,000	5 1	3 2 1	. i	
Senior copperplate engraver	3, 000 2, 580 2, 460	2 4	2 2	1 2	
Do	2,040 1,860	2 2	2 2 1	1. 1. 1.	
Do. Junior copperplate engraver.	1.620	·····i	1		
DoApprentice copperplate engraver	1,500 1,140	3 1	1 2 1	i,	
Do	1,090 900	1	1	١.	
Lithographic draftsmen Do. Do. Do. Do.	3,000 2,520 2,160	1 1 3	1	1	
Do	1,800 1,680	2 2	i i	1 1 1	
Do. Apprentice lithographic draftsman Foreman lithographic draftsman	960 2, 400	1 1	1	L	
Foreman lithographic draftsman. Foreman plate printer Foreman lithographic transferrer Lithographic transferrers.	2,400 2,100 1,860	1 1 4	1 1 3	1	
Do. Lithographic pressmen. Do	1,860 1,800	4	1 4 1		
Plate printers	1,900 1,680	2	2 2	1	
Map printers. Do <u>a</u> Lithographers.	1,800 1,500 1,500	2 1 2	2 1 2		
Plate printers	1,320	3	1	1	
Apprentice plate printers	900	2	2 2 1 1		
Apprentice lithographer Electrotyper Chief photographer		1	1	:	
Process photographer Photo printer Negative cutters	2,160 1,800 1,800	1 1	1 1 1		
Negative cutters	1,680	8	1 1 2	:	
Do	3,960 3,000	2	1 2		
Do	2,460	8	1 2		
Do	2, 100 1, 860	3 5	1		
Do Translator	1, 860	·····i	1 1 2 1 2 1 1 3 8		
Do Chart correctors	1,500 1,680	1	1 3		
Do	1, 140 1, 320 960	5 6 2	8 1 2	1	
Chief clerk	2, 700	i	î	1	

laries. Hydrographic Office, submitted in lieu of estimates as appear on pages 307 and 308 for 1923, etc.—Continued.

			Present force.		
Employees.	Rate per annum.	Esti- mated, 1923.	Esti- mated, 1922.	Rate per annum.	
nior clerk erks Do	\$2,100 1,980 1,680 1,620	- 1 2 2	1 2 3	\$1,800 1,600 1,400	
Do. Do. Do. Do.	1,500 1,440 1,380 1,320	* 2 2 2 2 2 6 6 2 3	3 6 4	1, 200 1, 200 1, 100	
Do. weman laborer alpers sissencer	1,200 1,200 1,140 1,140	1 5	3 1 6 3	900 840 800 720	
Do. Do.	1,080 1,020 900	5 2 5	5 3 1	660 660	
Totalesent bonus, \$240 each	316, 920	173	173	230, 050 41, 040	
Total				271, 090	

Net increase, \$45,830 (16 per cent).

NAVY DEPARTMENT. BUREAU OF NAVIGATION, Washington, D. C., December 14, 1921.

rom: Bureau of Navigation. o: Secretary of the Navy.

ia: Budget Officer of the Navy Department.

ubject: Pay of employees in the Hydrographic Office, United States Coast and Geodetic Survey and United States Geological Survey,

eference: The Budget for the service of the fiscal year ending June 30, 1923. aclosure: Supplementary report for Hydrographic Office made in accordance with salaries allowed similar positions in the Coast and Geodetic Survey and Geological Survey.

- 1. The bureau feels that the facts set forth herein relating to the low rate f pay of employees of the Hydrographic Office merits immediate attention of he department and of the Bureau of the Budget.
- 2. The salaries are not only inadequate as pay for employees who perform he character and quality of work required, but they are out of all proportion the salaries paid employees who perform similar work in the Coast and eodetic Survey and the Geological Survey.
- 3. The bureau recommends that the department request that under the autority given by Executive Order No. 3578 of November 8, 1921, to the Director f the Budget, he be requested to substitute the estimates recommended herein or the Hydrographic Office for the fiscal year 1923 in place of those previously abmitted.
- 4. The Bureau of Navigation considers this recommendation as not only ecessary but urgent.

THOMAS WASHINGTON.

DECEMBER 20, 1921.

rom: Budget officer, Navy department.

: Secretary of the Navy.

nbject: Pay of employees in the Hydrographic Office, the United States Coast and Geodetic Survey, and the United States Geological Survey.

1. Forwarded, approving the recommendation of the hydrographer and the ief of the Bureau of Navigation that revised estimates for salaries in the -drographic Office be forwarded to the Director of the Budget with the request that they be substituted for the estimates now appearing in the Budget for 1923. A letter address d to the Director of the Budget for your signature, carrying out this recommendation, is attached hereto.

R. E. COONTA.

The Secretary of the Navy. Washington, December 19, 1921.

Sir: There are submitted herewith revised estimates of the Hydrograph's Office for the fiscal year ending June 30, 1923, which I strongly recommend be substituted for the estimates of that office now appearing in the Budget pages 90, 91, and 92.

In the estimates for the fiscal year ending June 30, 1923, originally submitted to me by the Hydrographer, increases were provided for the employees in accordance with the salaries recommended by the Bureau of Efficiency, and substantially as given in House bill 2921, Sixty-seventh Congress, first session, known as the Wood bill. These increases, which, if granted, would have provided smaller salaries for Hydrographic Office employees than those paid employees of the United States Geological Survey, and the United States Cost Survey doing work of a similar character. I was constrained to refuse on the grounds of economy and in the belief that other departments would deal likewise with their employees.

It appears, from an examination of the Budget for the fiscal year ending June 30, 1923, that employees of the Coast and Geodetic Survey (pp. 723-724, and employees of the Geodetic Survey (pp. 644-650) not only retained their previous increases but secured the approval of their departments and the Bureau of the Budget for further increases.

As a result the highest paid of the technical employees in the Hydrographk Office get a little more than the lowest salaries paid by the two other bureas doing similar work in the District of Columbia.

The Hydrographic Office is an institution over 75 years old, whose nauted charts and publications have a well-deserved and world-wide reputation for accuracy and usefulness. The employees, who have done much to build up the office, have grown up in its service and have endured their previous inequalties in pay partly on account of their loyalty to the Navy Department and partly in the belief that, eventually, justice would be done them. I do not believe, in justice to the employees of the Hydrographic Office and in the interest of the efficiency of that office, that the removal of this inequality should be longer deferred. I, therefore, request that, in accordance with the authority granted in Executive Order No. 3578, the estimates submitted herewith be substituted for the estimates given on pages 90, 91, and 92 of the Budget for the Hydrographic Office. I believe the submission of these revised estimates to be in the public interest within the meaning of section 203(a) of the budget and accounting act, 1921.

I also inclose herewith the letter of the Hydrographer, under date of December 9, with comments thereon by the Chief of the Bureau of Navigation and the Budget officer of the Navy Department in further explanation of these est mates.

Respectfully,

EDWIN DENBY.

The Director of the Bureau of the Budget.
Washington, D. C.

Inclosures.

TREASURY DEPARTMENT,
BUREAU OF THE BUDGET,
Washington, March 2, 1922.

The honorable the Secretary of the NAVY.

Suc: Referring to your letter of December 23, 1921, with inclosures, concerning increase in salary for the Hydrographic Office. I have had an investigation of this subject made for the purpose of determining the justice of your request, and find that we would be justified in recommending the increases requested for salaries in the Hydrographic Office if such increases were in order.

However, since the submission of the Budget for 1923 Congress has committed itself to a policy of granting no increases in salaries, even if recom-

ded by this office, pending action upon reclassification measures now before ress; and the bill for the Department of Commerce and Labor for the 1 year 1923, as reported to the House of Representatives by the House ropriations Committee on February 22, makes provision for salaries in Coast and Geodetic Survey on exactly the same basis as the present

seems unwise, therefore, to submit at this time your request for increase alaries for the Hydrographic Office, even though we are convinced that increase is justified.

Yery sincerely yours,

CHARLES G. DAWES. Director of the Bureau of the Budget.

CONTINGENT AND MISCELLANEOUS.

Ir. Kelley. The next item is, "Contingent and miscellaneous enses." This year you have \$112,000. How much are you asking this item for next year? aptain Bassett. \$110,000.

Ir. Kelley. What about the money that you get from the sale

harts?

aptain Basserr. It is turned into the Treasury. Ir. Kelley. You do not have a revolving fund?

aptain Basserr. No, sir; the first of last July that was stopped an act of Congress.

Ir. Kelley. Can you put in the record a little table showing how : \$110,000 is to be applied?

aptain Basserr. Yes, sir; I have that right here.

Ir. Kelley. Please insert it in the record. aptain Basserr. Yes, sir.

Objects of expenditure, estimated, 1923.

chase of copper plates, chart paper, etc.	
s, instruments, etc	5, 000
action of charts by photography	3,000
olithographing charts	3,000
and repair of printing presses, furniture, etc	
islating	500
grams	
: charts	4,000
ellaneous	1,000
Total	110,000

r. Kelley. The big item is the purchase of copper plates, chart er. etc.? aptain Bassett. Yes, sir.

RECEIPTS FROM SALE OF CHARTS FOR VARIOUS YEARS FROM 1909 TO 1921.

- r. Kelley. Have you the sales of charts of last year?
- r. Bogue. The number of charts sold by years was as follows: 909, 18,000; in 1912, 24,000; in 1918, 111,000; in 1919, 178,000; in 1920, 245,000. This year the receipts will probably fall off tle, because the merchant marine is tied up in the harbors.
- r. Kelley. Mr. French wants to know about the cash receipts 919 and 1920?

Mr. Bogue. In 1920 the cash receipts turned into the Treasur for the sale of charts and nautical books amounted to \$108.474%

and in 1921 they dropped off to \$61,392.

Mr. Kelley. What was the reason?

Mr. Bogue. There was a gradual falling off after the war. In 1919 it was \$77,863.68.

Mr. Kelley. And how much in 1909?

Mr. Bogue. Less than \$10,000.

Mr. Kelley, When you did not have the extra men. Mr. Bogue. That shows that the merchant marine needs the Hydrographic Office charts.

CONTINGENT EXPENSES, BRANCH HYDROGRAPHIC OFFICES.

Mr. Kelley. For "Contingent expenses, branch hydrographic offices," you had last year \$15,000. How much are you asking for the next fiscal year!

Mr. Bogue. \$15,000. This is for miscellaneous expenses for 15 different branch offices. Rent takes over one-third of it—\$5.157.50.

Mr. Kelley. Who occupy the offices?

Captain Bassett. Naval officers, nautical experts, clerks, and messengers.

Mr. Kelley. That is \$1,000 an office?

Mr. Bogue. Yes. That includes rent. stationery, time balls. etc.

Mr. Kelley. You have had about that amount right along!

Mr. Bogue. Yes, sir.

ADVANTAGES AND DUTIES OF BRANCH OFFICES.

Mr. French. What is the advantage of maintaining these separate branch offices!

Captain Basserr. The mariners get all the latest hydrographic information and the correct time from our offices, and can consult the latest corrected charts and Sailing Directions. Many mariners come in to consult the branch hydrographic offices before they start on their voyages, and they get the very latest information up to the time of sailing. These offices also issue free to observers the pilot charts in exchange for hydrographic information. Wherever the personnel is sufficient, nautical experts are sent to visit vessels to collect the information and to distribute Hydrographic Office periodicals. At the branch offices personal contact is made with the mariner, who is taught to regard the Hydrographic Office as his own institution, to which he can always turn for guidance in nautical matters, and which he should support by reporting hydrographic information.

Secretary Denby. That is why you have officers?

Captain Bassett. Yes, sir.

Secretary Denby. A clerk would not have the information neces-

Captain Bassett. No. sir: or the experience necessary to advise mariners. Then we have our agents for charts in a great many cities, which these officers supervise.

Mr. Kelley. That looks like quite a wastage there to have officer in these stations.

Captain Bassett. I was just explaining why it was necessary.

Secretary Denby. It did not appeal to me strongly, but perhaps

u have given the real reason.

Captain Bassett. The branch offices have been established for a reat many years. In addition to naval officers there are nautical sperts, clerks, and in some cases messengers. They always have in teir offices corrected copies of every Hydrographic Office chart. As say, the mariners come in and get the latest information from the test Notice to Mariners. One of these Notice to Mariners [inditing] comes out every week, and from this they get all the latest prographic information.

Mr. Kelley. Do you print that?

Captain Basserr. Yes, sir; over 6,000 copies a week.

Mr. Kelley. Do you sell it?

Captain Bassett. No; it is free to mariners.

Secretary Denby. What information do they get that is not con-

ined in the printed articles?

Captain BASSETT. It may be that a merchant captain has not resived this [indicating the Notice to Mariners] and he may be sailing for South America. He can go to a branch hydrographic office and consult this. In addition he can get advice on any matter of avigation or hydrography.

Mr. Kelley. The question was the need for these naval offices. Why

aval officers instead of civilian clerks?

Captain Basserr. Because the duty is technical, and such that it hould be handled by a naval officer. It is purely nautical work. They have all the charts with the latest information for the mariners p to date. They are also charged with seeing that our authorized gents for the sale of our charts in the different cities keep their harts corrected up to date, and that these agents are not selling ut-of-date charts to the merchant captain who desires charts for a oyage. They have also the care of the time balls in many of the ities, instruct the Naval Militia and Naval Reserves in navigation, solding navigation classes. These officers also collect nautical information by actually boarding incoming vessels.

Mr. Kelley. What grade of officer is sent to these places?

Captain Bassett. In New York we have a captain. In the other ffices they are not higher than lieutenant commander or commander. have not the list of them here.

Mr. Kelley. Sixteen?

Captain Basserr. There are officers in charge of 14 offices, a nautial expert in charge at Duluth, and a messenger during the season f navigation at Sault Ste. Marie.

Mr. Kelley. You go on the Great Lakes for any of these enterrises when the Navy is not there? However, that is a matter of

Iministration.

Captain Bassett. The Navy, by law, has the surveying of the anadian shore of the Great Lakes and publishes the charts for our overnment.

Mr. Kelley. It is valuable to the mariners?

Captain Basserr. Yes, sir; they do use the charts. All the charts the St. Lawrence River from Cornwall, Canada, to the coast are ydrographic Office charts, and on the Canadian shores of the lakes.

SALARIES AT HYDROGRAPHIC BRANCH OFFICES.

Mr. Kelley. For services of necessary employees at these places you had \$25,000 and you are asking \$23,700?

Captain Bassett. \$23,700 is what we ask for.

Mr. Kelley. It seems to me that these nautical experts would be all that you needed at these places, or if you had an officer there we would not need a nautical expert?

Mr. Bogue. No. Both are necessary; for \$1,200 you would get a

very poor man to disseminate nautical information.

Mr. Kelley. Let us cut the nautical experts off and put the officer

there and do it right.

Secretary Denby. Could not the clerks employed at these brand offices-

Mr. Kelley (interposing). These nautical experts are a little above

the rank of clerk—they have charge.

Mr. Bogue. Yes, sir. Three of these were lieutenant commander during the World War.

LOCATION OF BRANCH OFFICES.

Secretary Denby. Where are the branch hydrographic offices! Captain Basserr. The branch offices are located in Boston, New York, Philadelphia, Baltimore, Norfolk, Savannah, New Orlean, Galveston, San Francisco, Portland, Oreg., Seattle, Duluth, Saut Ste. Marie, Chicago, Cleveland, and Buffalo.

Secretary Denby. What have you stationed at San Francisco-have

vou an officer?

Mr. Bogue. An officer and two nautical experts.

SALARY AND QUALIFICATIONS OF NAUTICAL EXPERTS.

Secretary Denby. What are the nautical experts paid?

Mr. Bogue. One \$1,800 and the other \$1,200.

Secretary Denby. What else have you there?

Mr. Bogue. That is all.

Secretary Denby. The nautical experts are clerks?

Mr. Bogue. No. They are men qualified by sea experience. \$1,800 man was a Naval Academy graduate of the class of 1886. He has had this position in San Francisco many years.

Secretary Denby. Are you not unnecessarily complicating and misleading by the use of the words "nautical experts," when most of

them are \$1,200 clerks?

Mr. Bogte. No: nautical experts-men qualified by sea experience for this work—are necessary. All nautical experts thus enployed have these qualifications, and they are not \$1,200 clerks.

Secretary Denby. What nautical experts have you now?

Captain Basserr. We have not many nautical experts-only a few—one in Philadelphia, one in Chicago, one in Duluth, two in San Francisco, one in Portland, Oreg., and one in Seattle.

Mr. Byrnes. You have three nautical experts at \$1,200 each.

Mr. Bogue. Yes; one in Chicago, one in Seattle, and one in San Francisco. A man must have had sea experience to qualify for nautical expert at the branch hydrographic offices.

Secretary Denby. Commissioned rank?

Mr. Bogue. Not necessarily. A man who has had sea experience chief quartermaster. Experience of this kind is the only way qualify for the position of nautical expert.

Captain Basserr. They must have been to sea in order to be of any

to us as nautical experts.

Mr. Kelley. Could not we drop your employees back to where they

re in 1920, 1919, 1918, 1917, 1916, and 1915—about \$18,000?

Daptain Basserr. We are crippled now. Our duties at the branch drographic offices are increasing all the time. We have begun ently the collection from and distribution to ships at sea of hydrouphic information by radio. This is of great assistance to the riner but entails a great amount of work upon the Hydrographic fice and the branch hydrographic offices.

should like the permission of the committee to insert this tabular

tement of the work of the branch offices, Mr. Chairman?

Mr. Kelley. It would take quite a lot of printing and I do not

nk it would be advisable to insert it.

Secretary Denby. Reverting to the item "Contingent and misceleous expenses," I should like to ask you about the appropriation 1921, \$50,000, and in 1922, \$112,000?

Ir. Bogue. That is explained by the fact that up to that time we re credited with the receipts from the sales. When the approation was \$50,000 we got \$108,000 from sales.

Secretary Denby. You used the sales money in 1921 and did not

it in 1922?

Ir. Bogue. Yes, sir.

OCEAN AND LAKE SURVEYS.

Ir. Kelley. The next item is, on page 30, "Ocean and lake surs," and for the current year you have \$105,000. How much do want next year?

'aptain Bassett. We have \$105,000 for this year, but \$15,000 was erved, and we are not touching it, so that leaves \$90,000 for this

r. We ask for the same amount for next year.

Ir. Kelley. How much have you spent this year out of this fund? aptain Bassett. We have obligated up to the present time \$75,109, ring unobligated about \$14,000, which will be needed for the re-

nder of this fiscal year.

Ir. Kelley. This is for work that is done on board the two ships? aptain Basserr. No, sir. This is for the purchase and printing fautical books, and supplies for the hydrographic surveys, in addito the compensation of the hydrographic surveyors, cartoghers, etc., on the U. S. S. Hannibal and the shore party in Cuba. Ir. Bogue. And is also for the payment of British charts pursed for our ships abroad. We have spent \$16,000 already and will bably require to spend about \$5,000 more, making a total of .000; that is, because we have not the plates for these purchased rts.

SURVEYING ALONG CENTRAL AND SOUTH AMERICAN SHORES.

Ir. Kelley. You have two ships that cruise about making the reys?

Captain Bassett. Only one ship.

Mr. Kelley. What is it?

Captain Bassett. The Hannibal, making surveys of the east coast of Nicaragua and Honduras.

Mr. Kelley. Surveying along the Central and South American

coasts; they are not up along our own coast?

Secretary Denby. Down in Honduras.

Mr. Kelley. They are outside of the United States? Captain Bassett. Yes, sir.

Mr. Kelley. The Coast Survey makes the charts of the United

Captain Bassett. Yes, sir.

Mr. Kelley. And these are in Central and South America?

Captain Basserr. Central America.

Mr. Kelley. Their data is sent up here and this appropriation

pays for making the charts?

Captain Basserr. No. sir. This appropriation pays for the field work, for making the actual surveys in the field. The ship is operated by the Navy Department.

Mr. Bogue. For signal towers, lumber and canvas for the towers, sounding machines, and instruments to survey, charged to this appro-

priation, plus civilian surveyors attached to the ship.

Mr. Kelley. And the draftsmen, etc., are paid out of this fund? Mr. Bogue. Yes, sir.

Mr. Kelley. The charts have to be paid for out of this fund? Captain Bassett. No.

Mr. Kelley. For the payment of services?

Captain Basserr. For the actual work in the field.

Mr. Kelley. Including the pay of the necessary hydrographic surveyors attached to the ship Hannibal?

Captain Bassett. Yes, sir.

Mr. Kelley. The cartographic draftsmen; where are they?

Captain Bassett. On the ship. Mr. Kelley. And the recorders?

Captain Bassett. They are on the ship.

Mr. Kelley. And for the purchase and printing of nautical books! Captain Basserr. That is entirely separate. The Sailing Direct tions, Light Lists, and other nautical publications are printed from this appropriation.

Mr. Kelley. How much of this appropriation of \$90,000 is for

surveying!

TOPOGRAPHIC WORK AT GUANTANAMO.

Captain Basserr. About \$25,000 for the Hannibal, and we also have a shore party at Guantanamo doing topographic work.

Mr. Kelley. How much does it cost to keep it going? Captain Basserr. The estimate for this year for the Guantaname shore party is \$10,000.

Mr. Kelley. What can they do on shore with these men?

Captain Bassett. They are making a topographic survey of Guan tanamo, Cuba, and vicinity, connecting it up with the hydrographic work which the Navy has been doing for a number of years.

Mr. Bogue. This topographic work is in connection with the de-

fenses of Guantanamo.

Captain Bassett. We are making charts of the whole Cuban coast

PURCHASE AND PRINTING OF NAUTICAL BOOKS.

r. Kelley. On page 51 you have, "For purchase and printing of ical books." Why carry it twice? On page 30 you have, "Puring and printing of nautical books, charts, and sailing directing of the control

"Of course, we can cut all of this out but \$35,000?

ptain Bassett. No, sir; that cuts out \$55,000, which should rein the bill. We can not cut to \$35,000 and have the Hydrohic Office operate. The \$90,000 must remain in the bill wherever appropriation "Ocean and Lakes surveys," appears.

r. Kelley. Why separate them?

r. Rogue. There has been only one case where printing was paid out of the appropriation, "Contingent and miscellaneous exes, Hydrographic Office."

r. Kelley. What do you do with the other \$55,000; only \$35,000

r the Hannibal and the shore party?

r. Bogue. For instance, there was \$21,000 for British charts for Navy for the current fiscal year.

r. Kelley. Why buy them out of this fund?

r. Bogue. Because there are not sufficient funds in other Hydro-hic Office appropriations.

ptain Bassett. There has been expended for the present fiscal

\$16,000 for charts and nautical books.

r. Bogue. It has been the practice for many years that if a ship, at Gibraltar, is ordered home via the Philippines, for her to go British or a Spanish agent, whoever it may be, and buy the necescharts, and we do not know about this until we get the bill for purchase.

r. French. Why is not that cared for on page 51?

ptain Bassett. The "Contingent and miscellaneous, Hydro-hic Office," appropriation is a local administrative appropriation is controlled in the Hydrographic Office in Washington. Here-te that appropriation has been in the legislative bill and did apply to the ships affoat. A large part of the "Ocean and Lakes eys" appropriation is for the purchase and printing of nautical s.

r. Kelley. You buy books over there?

ptain Bassett. Some few are bought abroad, but mostly they from the Hydrographic Office.

cretary Denby. Is it not feasible. Captain, to put that under

appears to be the logical heading?

ptain Basserr. I can see no objection. I have not been here very but I see no objection to the plan of combining the appropriation in the Navy bill, "Ocean and Lakes surveys," with the item stingent and miscellaneous expenses, Hydrographic Office," in egislative bill, as both items will now appear in the naval printion bill, provided the total appropriation for "Continand miscellaneous expenses, Hydrographic Office," is the sum of two appropriations, viz, \$200,000, and provided thereby we are king steps which by decisions, etc., might cut us out of our right this money.

retary Denby. It is illogical where it is. These books come

vour central office?

Captain Basserr. The present appropriation, "Ocean and Lake surveys," is largely for printing; we do not buy many nautical books. since the Hydrographic Office completed its own 58 volumes of the Sailing Directions, or Pilots, of all parts of the world.

Secretary Denby. From whom do you buy over there?

Captain Basserr. From the British, Italian, French, or other agents as the case may be, but mainly from the British.

Secretary Denny. How do the books get there?

Captain Basserr. The British publish the same books and chars that we do, and vice versa.

Secretary Denby. Are they the same type of books exactly?

Captain Basserr. The British publish their charts and nautical books from their latest information, and we do the same from our Each uses the others charts and books in correct latest information. ing their own charts and books.

Mr. Kelley. Then this clause "Ocean and lakes surveys" could be put in some part of the bill with "Contingent and miscellaneons expenses. Hydrographic Office."

Captain Basserr. I think it would be well to put them in the same place in the bill if the money appropriated remains the same as the sum of the two appropriations under consideration—\$110,000-\$90,000=\$200,000.

Mr. Kelley. If we cut out the language on page 51, everything

will be fixed.

Mr. French. If we strike out the language on page 30, as the chairman suggests, "for the purchase and printing of nautical books charts, and sailing directions," and incorporate it in the language of page 51, would the amount carried on page 51 be sufficient? In other words, does the money item amount to \$1,000 or \$1,500, or what!

Mr. Byrnes. Mr. French wants to know whether, if you change that language, the amount spent for purchasing charts on the exceptional occasions you have described would necessitate an increase of

this amount of miscellaneous expense?

Captain Bassert. The troubble is that there is a misunderstanding You are assuming that this would apply only to charts under the conditions that have been mentioned—that is, those purchased by vessels abroad—a small amount—but the last part of the part graph "Ocean and lake surveys," on page 30, applies to the purchs and printing of all nautical books. The amounts of money shown of page 51. "Contingent and miscellaneous expenses, Hydrographic Office," should in this case be changed from \$110,000 to \$200,000 by adding the \$90,000 which it is proposed to eliminate from page 30.

Mr. Kelley. Why not consolidate that whole paragraph with the item on page 51? The item on page 30 provides for hydrograph surveys, including the pay of the necessary hydrographic surveyor cartographic draftsmen, and recorders, and for the purchase printing of nautical books, charts, and sailing directions. Why m change the heading of the item for "Contingent and Miscellaneo expenses, Hydrographic Office," so as to include those hydrographic

surveys and put it all in one paragraph.

Mr. Bogue. It should include "Ocean and lake surveys."

Mr. Kelley. Put that in the title, making it include "Ocean and lake surveys.

Captain Bassett. I see no objection to that, provided that the total mount appropriated for "Contingent and miscellaneous expenses, Lydrographic Office," is made \$200,000. This appropriation "Ocean and lake surveys" is an old one, and I would like to see the same ording preserved if combined with "Contingent and miscellaneous spenses, Hydrographic Office."

Monday, March 20, 1922.

NAVAL OBSERVATORY.

STATEMENT OF CAPT. W. D. MacDOUGALL, SUPERINTENDENT,

SALARIES.

Mr. Kelley. We have with us this afternoon Captain MacDougall, f the Naval Observatory. For the current fiscal year you had 56,400 for salaries and you are asking the same amount for 1923. There are no increases in salaries and not any increases in the numer of employees?

Captain MacDougall. No. sir.

Mr. Kelley. Could there be any decrease?

Captain MacDougall. No, sir.

Mr. Kelley. Is this about the way it has been running for a long ime?

Captain MacDougall. There was a decrease made after the war in rder to get down to practically the prewar basis. There are no increases asked for, although I think that those people deserve an increase, and I hope that sometime they may get what they deserve.

Mr. Kelley. But you are not asking it this year?

Captain MacDougall. No, sir.

CONTINGENT EXPENSES.

FOR MISCELLANEOUS COMPUTATIONS.

Mr. Kelley. For miscellaneous computations you had for 1922 (1000 and you are asking the same amount for 1923. Those are nall items, I suppose, which you can not foresee and they have been e same for years?

Captain MacDougall. Yes, sir.

H. PROFESSIONAL AND SCIENTIFIC BOOKS, BOOKS OF REFERENCE, PERIODICALS, ENGRAVINGS, ETC.

Mr. Kelley. For professional and scientific books, books of refence, periodicals, engravings, etc., you had for 1922 \$1,000 and you e asking the same amount for 1923?

Captain MacDougall. Yes, sir.

Mr. Kelley. That is just to keep up with the procession, I supsee, and get some new things?

Captain MacDougall. Yes, sir. We have a very valuable astronomical and mathematical library there.

Mr. Kelley. And you have had that amount for quite a while!

Captain MacDougall. Yes, sir.

APPARATUS AND INSTRUMENTS AND REPAIRS TO SAME.

Mr. Kelley. For apparatus and instruments, and for repairs to the same, you had this year \$2.500 and you are asking \$2.500 for 1923?

Captain MacDougall. It is to be hoped that we have no catastr-

phies, and if not we will get along all right on that amount.

Mr. Kelley. Do you have any income from any other source is repairing the instruments and apparatus of other departments? For instance, suppose you should repair some instruments for the Bures of Aeronautics?

Captain MacDougall. That would come under "Instruments and supplies," in the naval bill. We have a shop there where we do work of that kind but that would not apply to this. Apparatus and instruments was previously in the legislative bill. I do not know where it is this year.

Mr. Kelley. If you do work for any other bureau, they pay you

just the same as a private firm would be paid?

Captain MacDougall. That is correct.

Mr. Kelley. The Bureau of Aeronautics is asking for about \$30,000.

Captain MacDougail. If we had anything to repair for Aeronatics, it would be done under the head of "Instruments and supplies," while this "Apparatus and instruments" applies to only the Naval Observatory apparatus.

Mr. Kelley. Over in your shop I suppose you do some work for the Bureau of Aeronautics and they pay you for the material and for the labor. Now, what would you do with that money—turn *

into the Treasury?

Captain MacDougall. It would be taken up in the Navy Department by crediting "Instruments and supplies" and charging against "Aeronautics."

Mr. Kelley. So you have no funds which you obtain for perform-

ing work for other bureaus?

Captain MacDougall. No, sir; we have nothing for "Apparates and instruments" except what is in this bill.

REPAIRS TO BUILDINGS, FIXTURES, ETC.

Mr. Kelley. For repairs to buildings, fixtures, and fences you had this year \$3,500, and you are asking for the same amount?

Captain MacDougall. Yes, sir.

Mr. Kelley. And you have had that amount off and on for a long

time !

Captain MacDougall. Yes, sir.

FUEL, OIL, GREASE, ETC.

Mr. Kelley. For fuel, oil, grease, pipe, wire, etc., you had this year \$12,000 and you are asking the same amount for 1923. You

ave some new language in this paragraph, "and passenger automoile." What is that?

Captain MacDougall. We have a Maxwell truck out there, which s a big heavy truck meant for heavy work, and that truck often as to make trips down to the Navy Department to carry a letter r something of that sort; we also have in storage a Ford passenger utomobile that was given to us during the war for necessary duties; hat Ford passenger automobile could be very conveniently, and, I hink, economically, used to carry these letters or to carry any officer lown to the Navy Department who had to go there on duty; and in using that we could presumably keep it up on the same sum of noney, because that would save our Maxwell truck, which is meant or heavy work. Therefore I asked a change in the wording so that might have permission to use that car, which is now idle and which we can not get going in any other way; I mean it is against he law to run its privately, for instance, and supply our own gasoine or anything of that sort; and it seemed to me it would be a very handy and useful thing, and it could be run on the same amount of money, because there would be that much of a saving on the work ecessary for the big truck.

Mr. Kelley. And you have the car?

Captain MacDougall. We have the car; yes, sir. It looks pretty good, although I have never seen it run.

Mr. Kelley. This would not necessitate a chauffeur?

Captain MacDougall. No, sir.

Mr. Kelley. Have you a horse and wagon out there—a horse-

lrawn passenger-carrying vehicle?

Captain MacDougall. Yes; I am allowed a carriage and a team of norses, but to save time I go in my own automobile, that I am fortunate enough to have.

Mr. Kelley. But you keep the team, do you?

Captain MacDougall. We use the horses for other things. We have an 82-acre place, you see, and a good deal of what you might call ordinary farm work to do in order to keep things in order—landscape gardening, etc. It is a public park, and it is used more or less by people driving through it, and all that, so that we must take care of the roads and keep things in order. We have to maintain control over it ourselves, otherwise the feature of the observatory which requires us to be in the middle of an undisturbed spot might be broken down by heavy traffic or something of that sort.

Mr. French. Is that the reason for locating the observatory in

that large area?

Captain MacDougall. Yes; it has a radius of 1,000 feet in every lirection around the clock vaults, where we have our standard clocks, and from our big telescope. Also it is necessary to have trees and grass around. You should not have too many buildings near to t. nor could it be in the vicinity of ordinary city paved streets, ecause there would be heat vibrations in the air which would interere with the astronomy.

Mr. Kelley. If you had the automobile taken care of, would you eed the horse-drawn vehicle in addition? Do you use the horses and

uggies sometimes?

Captain MacDougall. Yes, sir; I have a number of carriages out there: one is said to have come from the White House. Others did not want them particularly, but they are useful there.

Mr. French. Do you use the horses in caring for the lawns and

grounds?

Captain MacDougall. They are used for different things, but they are primarily furnished for the use of the superintendent, to bring him down to the Navy Department; that is what they were primarily furnished for.

Mr. Kelley. You probably do not spend much money in keeping

up those vehicles?

Captain MacDougall. I spend practically nothing on the vehicle. Mr. Kelley. The language here provides for the operation of

horse-drawn passenger vehicles.

Captain MacDougall. The language also provides for the purchase and maintenance of them. Of course, the horses cost something, because they have to be fed and shod, but the carriages do not cost anything.

Mr. Kelley. You do not spend anything on the carriages to speak

Captain MacDougall. Practically nothing.

Mr. Kelley. The horses are used not only for the carriages but for work about the place?

Captain MacDougall. Yes, sir; and we could not get along them

without horses.

Mr. Kelley. If you could use the automobile it would save running the truck down town a good many times? That is your state-

ment, as I understand it!
Captain MacDougall. That is the argument for including the passenger automobile. If I had intended it as a substitute for the superintendent, of course, it would not have come under that appropriation. It is merely a substitute for the truck when it is necessarv to do an errand.

CLEANING, REPAIR, AND UPKEEP OF GROUNDS.

Mr. Kelley. For cleaning, repair, and upkeep of grounds you have this year \$6,500, and for 1923 you are asking for the same amount! Captain MacDougall. Yes, sir; and that barely covers the necessi-

Mr. Kelley. Do you want the words "and roads" taken out? Captain MacDougall. It would be better to have those words remain in the paragraph, because they properly belong there. They were left out by error, as I understand it—a clerical error.

Mr. Kelley. Last year?

Captain MacDougall. Yes, sir; in the typed document that can from the Navy Department.

NAUTICAL ALMANAC OFFICE.

SALARIES.

Mr. Kelley. The next item is for salaries, Nautical Almanac office. Last year you had \$18.420, and you are asking the same amount for 1923?

.Captain MacDougall. Yes, sir.

Mr. Kelley. These are all statutory positions?

Captain MacDougall. Yes, sir. In my opinion these employees all underpaid for their capabilities, and that is true in comparison ith people of similar qualifications employed in some of the more cently established branches of the Government.

Mr. French. Where does this almanac circulate—among the naval

Ficers on the ships entirely or is there a private demand?

Captain MacDougall. The book is issued in two forms; one is called a American Ephemeris and the other is called the Nautical Almanac. board every ship in the Navy it is necessary to have one or two the larger books and several of the smaller books for navigational arposes; they are also supplied to the merchant service by sale arough the Government Printing Office, and the books, especially as Nautical Almanac, are to be found for sale by all ship chandlers and similar people, who get them from the Government Printing office. The Ephemeris is also used by all astronomers and by persons agaged in the study of astronomy. Incidentally, there is a considuable demand from Members of Congress for extra copies of these ooks, which they generally get from the Government Printing office. We have an exchange of the Ephemeris with foreign governments and foreign observatories, because we get their books and they et ours.

PAY OF COMPUTERS.

Mr. Kelley. For pay of computers on piecework in preparing for ublication the American Ephemeris and the Nautical Almanac, etc., ou had this year \$1,500, and you are asking the same amount for 923. In some years you have had more than that. Why are you sking for less than you have had for that work?

Captain MacDougall. They made some reductions about two years go and found they could combine certain things for the sake of

conomy.

SATURDAY, MARCH 18, 1922.

BUREAU OF ENGINEERING.

STATEMENT OF REAR ADMIRAL JOHN K. ROBISON, CHIEF.

REPAIRS, PRESERVATION, AND RENEWAL OF MACHINERY, ETC.

Mr. Kelley. "Bureau of Engineering. For repairs, preservation, and renewal of machinery," etc., for the current year you have 20,500,000. What are your very latest estimates for the coming rear?

Admiral Robison. \$14,559,837.80, based on the list of vessels furtished pursuant to the letter of March 16 by the chairman of the Committee on Appropriations to the Secretary of the Navy; my prejous estimates totaled \$18,200,000.

Mr. Kelley. You have a distribution of that, of course?

Admiral Robison. Yes, sir. I have here a tabulation showing the nit expense for a ship of each class in commission and out of com-

This also shows the number of ships in each status w the March 16 list. It gives the total estimated cost for ships be on actual figures from the fiscal year 1921, reduced to present for labor and materials. [Copies were handed to the chairman members present.] I will give you the annual unit cost for each of vessel. In that way, for whatever list of vessels you keep in a mission, you will be able to make a figure as to how much is requ under this appropriation to run the Navy.

ANNUAL UNIT COST OF EACH CLASS OF VESSEL.

Mr. Kelley. I think that is a good suggestion.

Admiral Robison. For a battleship in full commission, \$160 I have used throughout the smallest figures I could obtain. F battleship in reduced commission, in ordinary, \$80,900. tleship out of commission, \$8,000; for a cruiser, second line, in commission, \$43,095; for a cruiser, second line, out of commis \$8,000; for a light cruiser, first line, the new ones, \$63,525; 1 light cruiser, second line, the old ones, \$63,525-

Mr. Kelley (interposing). The first ones were the three new of Admiral Robison. Yes, sir. But it is from the old ones th have made the estimate of \$63,525; light cruiser, second line, or commission, \$6,500; for aircraft carrier, \$57,120; for a mine l second line, \$46,300; for a mine layer, second line, out of con sion, \$4,500; for a destroyer, in full commission, first line, \$17 with a 50 per cent complement, \$15,485, and out of commis **\$**1,500.

It is from our experience with destroyers of the second line we have obtained the figure that I have used for destroyers of first line out of commission. The charges are comparatively and I assume that they would be the same for each class of ves

Mine layer in full commission, \$26,925; light mine layer, or commission, \$1,500; submarine, first line, in full commission, \$16 submarine, second line, out of commission, \$1,500; eagles, \$7 eagles, out of commission, \$1,500; subchasers, out of commis \$75; gunboat, \$16,075; yacht patrol, \$12,975, yacht patrol, o That last seems to be out of line witl commission, \$2,000. \$1,500 I have given heretofore.

Mr. Kelley. It may be a little larger yacht.
Admiral Robison. There are only a few of them and that \$ may turn out to be \$2,500; I rather think it will. Destroyer ter in commission \$49,625; destroyer tenders, out of commission, \$6 submarine tenders, in commission, \$33,725; submarine tenders of commission, \$6,000; lighter than air tenders, \$44,025; repair: \$44,500; repair ships, out of commission, \$6,000; store ships, \$5 store ships, out of commission, \$5,000; colliers, \$58,375; collier of commission, \$6,000; oilers, in commission, \$44,875; oilers, c commission, \$4,500; ammunition ships, in commission, \$5 cargo ships, \$41,750; cargo ships, out of commission, \$4,200; ports, \$61,625: transports, out of commission, \$4,200; hospital \$44,675; hospital ships, out of commission, \$4,500; fleet tugs, \$1; fleet tugs, out of commission, \$1,000; mine sweepers, \$13,650; sweepers, out of commission, \$1,000; auxiliaries, miscellar 47,625; unclassified, in commission, \$5,275; unclassified, out of commission, \$1,000.

On the basis of the number of ships that are retained in one or the ther of the three conditions, full commission, half crew, and entirely nt of commission, you will get radically different totals as to the mount that will be required for engineering expenses on the vessels.

Mr. Kelley. Assuming that the list of ships you have given here

re all kept in commission, what will be your expense?

Admiral Robison. The table I have furnished is one that was based. pon the letter of the chairman of the committee of the 16th of March 5 the Secretary and, I am informed, is the list of vessels that would e kept in commission if the total naval personnel were 65,000. ou desire, I can give you the names of these vessels.

Mr. Kelley. Now, that represents, as far as the ships are con-

Erned, the basis of your figures?
Admiral Robison. Yes, sir. V We have, in addition to that, a coniderable number of items that aggregate large figures.

Mr. Kelley. Let us for the mement stick to the ships and consider

he others afterwards.

In determining that it required \$160,835 under Engineering for a attleship that is kept in full commission, how did you arrive at that

gure?

Admiral Robison. I have taken the figures of cost of the fiscal wear 1921 and decreased the material cost 18 per cent and the labor ost 25 per cent, which correspond, as closely as I have been able to ompute, to the present conditions. The figures given are just as early accurate as I can estimate. If wages go up next year, these gures are too low, and if they go down these figures are too high. material goes up in price, these figures are too low, and if material bes down in price, or if I can get a lot of material for nothing greater amount that I am now getting for nothing, these figures are too igh.

SALVAGE FROM SHIPS SCRAPPED.

Mr. Kelley. What would you say as to the salvage from the scrap

ing program, so far as it affects your bureau?

Admiral Robison. There is in these ships a lot of apparatus that want to use, and if I get permission to use it I shall do so. It conists chiefly of electrically operated pumps, of ice machines that are lectrically operated, or of an improved type to ice machines now The new ones are operated by CO.2 They cost much less o run than do the ones that we have installed on many of our ships, and I would like to put them in. They will make the ships cost less orun. That sort of thing will save us the price of new material, rovided we had money enough otherwise to buy that new material. as it stands, these figures do not allow for any improvements mywhere.

Mr. Kelley. They are just repairs and what else?
Admiral Robison. They include, as given here, Title C—that is, he cost of supplies that are necessary to prevent rust, the cleaning par, and that sort of thing; Title D—that is, material and labor equired for repairs incident to service, renewal of condenser or boiler abes, and that sort of thing, or the repair of a turbine; Title K, the st of current minor alterations that have been passed upon. Every

last one of these things has already been determined as necessary the fighting efficiency of the ships. It does not include any alterati or improvements for economy. For instance, I want to put on ev battleship a listening device for these sound instruments, and a p many of them lack the proper blister in which the receiving appar is placed. That is one of the class of alterations included: I have The list also includes Title P, the cost of repairs to general list. equipment of a ship, things like searchlights, electrical fixtures t are a part of the ship but not provided with the vessel from the tractors, articles provided by the Government as utensils for accomplishment of our end. All of these things are included in w we call Title B. In the last column are the costs of renewal searchlight may be completely wrecked. Such things have occu from gunblast. They have to be completely renewed, a new one pu rather than attempt to repair the old one. It will cost \$160.835 (year to take care of the engineering work on each battleship in ac service.

If you keep them anchored, you will not need that much. will require \$22,960 to supply them with their cleaning gear ordinary supplies incident to commission. That is how the fig were arrived at. The same explanation applies to the figures each of the other classes of vessels.

Mr. Kelley. Having in mind what has been ordered for the bas ships that are not to be built and what has been accepted or what probably have to be accepted, would you say that there would quite a large quantity of material that you could use?

Admiral Robison. I hope so.

Mr. Kelley. At scrap prices that would be included in this mate of \$160,000 per battleship—I am leaving out your proje improvements and only speaking of the ordinary affairs. If have that in inventory at its scrapped value—there probably will a great deal of it; that would make quite a difference in your fu would it not!

Admiral Robison. I have not yet taken that into considerat Mr. Chairman. About the largest item of considerable value we be the straight copper piping. Perhaps I can get a certain num of condenser tubes that I could use and fit into other ships. It next year nearly \$1,000,000 worth of condenser tubes that I known now, and probably later on if the boiler tubes have not already bent to fit the special type of boiler that is required for the vessels I could cut off enough of the length of them so that I could the use them in some of the boilers that are now on hand. Those m decrease the appropriation charges. I do not know.

Mr. Kelley. It would seem that you would have an enorm

quantity of fine material.

Admiral Robison. Yes, sir. The taking of the inventories i hand. I have not the report from a single locality. It was star a month ago.

Mr. Kelley. You have spent already over \$300,000,000, you

Admiral Taylor!

Admiral Robison. Yes, sir: we have spent about \$360,000,000 Mr. Kelley. And Ordnance another \$100,000,000. There course the machinery end of it, which would yield the largest sping return!

Admiral Robison. There is one ship from which I could now obtain most a complete spare propelling unit for a first-class battleship.

Mr. Kelley. That is fine.

Admiral Robison. But I have not the battleship to put it in.

Mr. Kelley. You will not need that this year; but that is only a mple, perhaps, of the machinery that you will have on hand or at you will really need. You can not foresee, of course, for next

Will your appropriation run about 60-40 as between material and

bor ?

Admiral Robison. A little bit different from that. I would invite pur attention to the first sheet of the booklet of expenditure charts, hich is an integral of what is happening to the appropriation as comtred to last year. The expenditures of last year are shown in ue on sheet A, and the actual expenditures for this year are shown yellow. That is by months.

Mr. Kelley. It looks like you had a pretty good hold on the

tuation.

Admiral Robison. I do not intend that there shall be any deficit. In sheet B you will note that the material—all the expenditures on the first part of sheet B are for material—has been repeatedly in the cess of what it was last year. We have accomplished a decrease our monthly expenditures in excess of a million dollars, as shown the first sheet. We have materially increased our service to the pessels of the fleet.

Mr. Kelley. That has been by extra care during the year and, I

appose, some reduction in price.

Admiral Robison. I am not talking about quantities; I am talking bout costs. We are actually putting as many dollars into the fleet s we did a year ago and we are spending \$1,100,000 a month less on he whole establishment, shore and fleet.

Mr. Kelley. That can not be, can it?

Admiral Robison. That, fortunately, is the exact truth. This will xplain it. Take Sheet C of the Booklet of Expenditure Charts and re can see what has happened to the shore expenditures. We are pending approximately only three-fifths as much as it was last ear at the shore stations. Take Sheet D, and compare this year nd last year—that is, compare the yellow with the blue—and you fill see that while several times last year we got up to \$2,000,000 a nonth at the shore stations we are repeatedly this year falling relow \$1,000,000 a month. That is where the \$1,000,000 comes.

If you will note Sheet E you will find that the cost is \$3.50 to every lollar's worth of material on the ships, if you put it on at the yards. That is the ratio. It costs us \$3.50 to put a dollar's worth of material on a ship, if the labor is performed at the navy yards, but if we put he material on the ship and let the ship's force do the work, it costs is \$1 instead of \$3.50. That is where we are making headway, because the ship's forces are doing a larger proportion of their own naintenance work. The fleet is much more self-maintaining in that espect.

Mr. Kelley. That is what brings your labor and material a little loser together. If you do not have to pay civilians, but can have the ork done on shipboard, it brings the labor cost and the material

ist closer together?

Admiral Robison. Yes, sir.

Mr. French. Do you do that work on the ship itself, or is it done in connection with one of those tenders?

Admiral Robison. It is done on board the ship itself, but we have repair ships that are used, too. We have the repair ships *Promethers* and *Vestal*.

Mr. Kelley. Taking your appropriation for ships as a whole, how would it divide as between labor and material?

Admiral Robison. I do not think I have that figure.

Mr. Kelley. You have stated the situation.

Admiral Robison. I will have to make a calculation in order to know.

Mr. Kelley. We are speaking now of the ships.

Admiral Robison. Sheet F shows what we have ashore. We are at present spending \$517,500 for labor and \$192,600 for material ashore per month. To find the total material charge, to that should be added the material for the fleet, which for seven months has averaged about \$525,000. We will, therefore, have 517,500 to 717,600 as the ratio.

Mr. Kelley. That is not far from 40 to 60.

Admiral Robison. It is about 5 to 7. To the material that we are now charging to ourselves, should be added the value of salvaged material that we are using. I have not an exact record of that. I know, for instance, that we have used over \$500,000 worth of tool steel and a lot of belting. We used two carloads of belting that did not cost us a cent, and I know that we used \$3,618,384 worth of various machine tools. We have not done all of it this year, but since we got hold of it at the beginning of the last fiscal year.

The salvaged material that we are now using amounts to a very large figure. If you are considering our present expenditures and expecting that the newly recovered salvaged material will take care of our future expenditures, I do not think it will be quite safe, because the salvaged material is becoming rather scarce, and we will not be able to use anything like as much in the future as we have in the

past because there will be so much less available.

Mr. French. A good deal of this material from the war was charged

up to you at very high prices, was it not?

Admiral Robison. Some of it, yes; and some of it I have gotten for nothing. There was a law passed last year that enabled a revalution of the war stocks to current market prices. That cut down the price of condenser tubes, for instance, from 37 cents to 19 cents per pound, or it practically cut that price in two. Copper went from 28 cents to 11 cents, or less than half the former price. Those reductions make a big difference, and we are no longer called upon to pay war prices for material on hand, but we can obtain it at market prices.

Mr. Kelley. As to this other material, of course, I know you can not tell how much of it you can use, but it will be a very large quan-

tity, will it not?

Admiral Robison. This year we used \$827,387.63 worth during the first six months.

MATERIAL ON HAND.

Mr. Kelley. You have pretty nearly all of the machinery ordered the 14 ships, have you not? Admiral Robison. Yes, sir.

Mr. Kelley. And it is well along under construction?

Admiral Robison. Much of it.

Mr. Kelley. And that which is not set up in machines is pretty

Il fabricated?

Admiral Robison. If I could get authority to put the machinery ended for the Washington on to one of our older battleships, it ald be done under the law and under the treaty, too. It would t increase the power of the ship, but it would make her a more iable and better ship. To do that would cost Admiral Taylor mething over \$1,000,000, and it would cost me well over a million llars; but, of course, we do not expect to get those two million llars this year. I desire to take that machinery and place it in

Mr. Kelley. I was speaking more particularly of the material that u have on hand fabricated, and which could be used for repairs. Bre parts, and that kind of thing, in connection with the ships that now in existence. You will have to scrap those ships and will we to establish a scrapping value, and the price that the Navy ght to put on the scrapped material is what anybody else would

y for it. Do you not think so, Mr. Secretary?

Secretary DENBY. You mean if we used the scrapped stuff that

s already been paid for?

Mr. Kelley. If you have the material in a ship that you are not ing to finish, and can take it out and use it for repair purposes, that aterial will have a scrap value that will have to be determined. not know how you will determine it, but the situation would be at when Admiral Robison bought material for repairing engines, r instance, he would buy it at the scrap price.

Admiral Robison. The condenser tubes you could probably sell r not more than 9 cents. We have a lot of defective tubes in stock.

Mr. Kelley. How much would you need?

Admiral Robison. We will need a million dollars worth of them xt year, but I do not know how many we can get out of those ships. Mr. Kelley. What about electrical instruments and things of

Admiral Robison. Some of them I can probably use, but I do not **how.** As soon as the call for this limitation conference went out I Lve orders not to make any more contracts for materials for new **ips** building.

Mr. Kelley. That was a wise thing.

Admiral Robison. We have no contracts made for the boilers rather, the boilers were not ordered for four of these ships, and a t of other materials were not ordered. That will serve to deease the amount of materials available for our use. It will probly cost this appropriation a little, but I do not think the Govern-

Mr. Kelley. You would not want to hazard a guess as to what u would save on that account?

Admiral Robison. Yes, sir: I can guess. I guess that I save \$500,000 next year from that material.

Mr. Kelley. Not more than that?

Admiral Robison. That is my guess.

Mr. Kelley. That would be a very safe guess. Admiral Robison. No, sir; that is my guess. The condenser to are not all ordered. As you see, this guess is made right off the and it may be radically too low or radically too great.

Mr. Kelley. I am just trying to visualize those ships and machinery for the ships still under way, with boilers, engines, material of every kind and description ready to go into them.

Admiral Robison. If the boiler tubes are bent I can not

them.

Secretary Denby. You want to find out how much of this mate would replace new material that otherwise would have to be boug

Mr. Kelley. The admiral is asking \$9,000,000 for material labor to repair 18 battleships that we already have. He savs t about half of that \$9,000,000 represents the material. He was fig ing it, of course, upon the basis on which he has been going, of b ing the material for the Navy, and I was injecting this other elem into it—that is, that he would have large quantities of materia the finest quality that can be sold to the Navy, or anybody else t wants it, at scrap prices. If we gave him the amount that he estimated, he would have more money than he would have if considerable part of this material could be used in the repair ships.

Admiral Robison. If I have to buy that scrapped material

put it in storage, I would lose money.

Mr. French. You mean by that, if you bought the material used simply what you could use, and let the rest remain in storage

Mr. Kelley. The Navy will have the first call on it, and can t what it wants, no doubt. If I were the Secretary of the Nav. would try to arrange it that way.

Secretary Denby. I presume that that is a matter of so m indefiniteness that it will be difficult to make more than the ro

guess he has made.

Admiral Robison. If you simply authorized the Navy to re such material as it needed and required no charge at all for i think it would be better. The material has already been paid out of the appropriation, "Increase of the Navy."

RADIO SHORE STATIONS.

Mr. Kelley. What is the rest of the estimate made up of? Admiral Robison. There are a good many items, and the lar one is radio, radio shore stations. I have included the item of r on board ships in the ship expense. Radio shore stations repre the largest expenditure.

Mr. Kelley. How much is that? Admiral Robison. That depends.

Mr. Kelley. How much does it figure out?

Admiral Robison. I have figured it at \$3,782,510, but that incl \$960,150 of expenditures that are debatable. The urgent and in diate necessity for the \$960,150 does not exist, but it is desira

d it will save the Government money in the long run to provide it. do not know how much more a dollar is worth to-day than the llar and a half or two dollars that it will cost you next year. for you to decide. The radio expenditures that are to-day necesry and urgent amount to \$2,822,360. That is for next year.

Mr. Kelley. Is that just for repairs?

Admiral Robison. No, sir; that covers repairs, improvements, aintenance, and operation. That represents all of those expendires that are chargeable to my appropriation. Mr. Kelley. You do not pay for the men?

Admiral Robison. I do not pay for the men. I pay for all the aterial for the grounds, for the buildings, for the power, for the

paratus, for the renewals, and for the upkeep.

Mr. Kelley. How much of this is for entirely new construction? Admiral Robison. Not much. If you will look on the next to the st sheet of the Booklet of Expenditure Charts, you will see there the propriations and expenditures for last year and this year and hat we estimate for next year for maintenance, improvements, and terations. That is for shore radio and for shore radio compass ations. The last sheet shows the expenditures on board ship. e have estimated \$1,268,160 for the maintenance of the shore dio stations.

The items for improvements and alterations I have cut since the aph was prepared by eliminating some items. We have estisted for the Atlantic section shore stations \$190,500 for urgent aprovements, and \$370,000 for work that is necessary to be done once. In the Pacific section we have estimated \$369,000 worth urgent improvements, and \$293,300 worth that are necessary,

total being \$1,222,800. To maintain the radio service of the ro sections the estimate is \$1,268,160. For the radio compass ations, the total is \$214,500, with \$68,400 for maintenance. stent and research work, which is saving us enormous money -day, is estimated to cost us \$48,500 next year.

Mr. Kelley. How much more are you estimating for next year

an you are going to spend this year?

Admiral Robison. It is less.

Mr. Kelley. It was how much last year? Admiral Robison. This year it is \$4,117,728.

Mr. Kelley. How much have you spent up to date?

Admiral Robison. A little over half of it. We have additional intracts let for about one-fourth of it, and I think between 75 and) per cent of it is either spent or obligated. For the year 1921 the tal expenditures were \$5,343,304.

Mr. Kelley. This radio business is quite expensive.

Admiral Robison. We can not do something for nothing. e doing that better than anybody else, I think.

Mr. Kelley. This does not involve any new stations?

Admiral Robison. That \$2,822,000 estimate, I believe, involves sing 35 subordinate stations.

Mr. Kelley. This sheet shows that the improvements, mainnance, and alterations of established stations on shore are in excess the cost for 1922.

Admiral Robison. You will note that although this graph made up that way, the amount I have requested is less than amount appropriated for the current year. You should su tute \$1,222,800 for \$1,844,400.

SAMOA RADIO STATION.

CONSTRUCTION OF STEEL TOWERS, ETC.

Mr. Kelley. You might give us a little more detailed info

tion about the item of \$126,000 for Samoa.

Admiral Robison. Two 150-foot steel towers will cost \$90. The present towers are of wood, with lattice work, erected when 30-kilowatt station was originally established. The steel to will be permanent. It has been definitely determined that station can communicate satisfactorily with the Hawaiian Isla

The station is a permanent one and permanent towers are required present ones are liable to fall down. It is the only system communication with that part of the world, and there is no a native cable communication. Another item is a duplicate kilowatt are converter, to be installed, \$15,000. This is to in the continuous operation of this isolated station. The radio statistical itself is not in a part of the island that is inhabited by white per and there will be required some quarters. No quarters have provided for the officer in charge. He is in charge of the way district, or island, and the operators or enlisted men have go have places to live.

Mr. Kelley. That amounts to about how much?

Admiral Robison. That will cost \$19,500. There are miscellan items which have not been listed amounting to \$1,500. That provide for miscellaneous expenditures that it is impracticable foresee. It is in part a contingent expense. These people must on call every moment.

Mr. Kelley. You have authority to build quarters?

Admiral Robison. Yes, sir. That \$126,000 gives the entire I have complete responsibility for all expenditure in connection the radio shore station.

HAWAHAN ISLANDS RADIO STATION.

ERECTION OF STEEL TOWERS, ETC.

Mr. Kelley. Give us the details of the \$295,000 for the Haw Islands.

Admiral Robison. As you know, this is the center of our v Pacific work. I wish to erect two additional 600-foot tower insure satisfactory service with Cavite, so as to handle the increavolume of traffic with the Philippines without delay. We have a great increase in our transpacific traffic; some of it was due to fact that the cables have broken down from time to time. A the Limitation of Armament Conference reports were sent by radio, the press reports, and I am informed that those were only authentic reports that were received in China. It was only way in which the whole truth could be gotten to China.

ving the ground system, \$10,000; new loading coil, \$10,000. you want the details and the reasons for each of them?

Mr. Kelley. No; give the sums.

Admiral Robison. To erect concrete power house at Heeia, 7,500; construct roads to station site, \$3,000; construct control d communication line from the remote control and receiving at Wailupe to the high-power transmitting stations at Pearl arbor and Heeia, \$60,000. This will reduce expenditures and avoid wing rent. Fifty thousand dollars for advance radio stations at bases in the Hawaiian Islands, \$10,000 for miscellaneous items ich it is impracticable to foresee. That makes \$295,000 for that Lt is, perhaps, our most important link in the transpacific min.

POINT ISABEL, TEX., STATION.

ERECTION OF TOWERS.

Mr. Kelley. Give us the details as to Point Isabel, Tex., \$300,000. Admiral Robison. Point Isabel, as you know, is right at the mouth the Rio Grande. The necessity for this station is that of main-ning continuous American communication with the Panama nal; likewise it is the station we are depending upon to communibe with the smaller vessels not equipped with the high-powered most expensive radio equipment, when the vessels are in the estern Caribbean or in the lower part of the Gulf of Mexico. Point abel is a relay point between San Diego and Darien, and in order make that station work properly a lot of money will have to be ent; it will cost \$300,000, and the money will be used in erecting rger towers, which are required to transmit messages for considble distances. It is one of the coastal stations, bit it is now only mod for a small radius and for sending messages to vessels that are comparatively close proximity. We have got to be able to talk Panama, and the reason for bringing the communication near the outh of the Rio Grande is because it is the closest place to Panama est is American, and I do not think we want that radio tower anyhere else. The place is rather difficult of access.

Mr. Kelley. Are any quarters included?

Admiral Robison. \$500 is included for furniture, but that is all. Mr. Kelley. There are no quarters included, and it is mostly for

towers and the power?

Admiral Robison. Two masts, the antenna and the power plant. Te have no big cable bills to pay for messages sent across the Pacific -day; if you have any bills at all they are practically nothing. We rn into the Treasury as miscellaneous receipts several thousand Allars every year aside from the work we are doing for other determents of the Government. This is, in part, an investment. I inot know that Captain Bryant has made the idea quite clear, but work is not to determine the operation of it but to make it so will operate. It is an absolute necessity. If you are going to mmunicate with your ships at sea you have got to have it, and if you want to do it properly you do not want to duplicate it; that is say, you do not want a naval radio station, an Army radio station, Interior Department radio station, and a Post Office radio station, one town. The Navy has one and it is doing the radio work for all of the Government departments along the coastal zone. We sending by radio communications that are delivered all the way and down the Pacific coast. Our telegraph bill is cut down transcontinental work and you have seen the effect of it in the fig giving the amounts expended. We are not spending as much telegraph bills to-day as we used to spend.

Mr. Kelley. I wish that were so.

Admiral Robison. I may have been misinformed and you are man who provides the funds. But I know you are not spend anything like as much as you would if you had to pay for commer service for the messages that are being sent across the continent radio. My business is to furnish the service.

Mr. Kelley. You want \$2,822,360?

Admiral Robison. Yes, sir.

GREAT LAKES RADIO STATION.

Mr. Kelley. What are the other items in this?

Secretary Denby. Has that been analyzed as to interior static Admiral Robison. There are no interior stations.

Secretary Denby. How about the Great Lakes?

Admiral Robison. We have radio-compass stations at the Gillakes, but they are not of much use to the Navy, and as soon as some will pay the cost of running them I will turn them over.

Mr. Kelley. That is a rather negligible sum?

Admiral Robison. Yes.

Mr. Kelley. The items you have been giving include some v heavy replacements.

Admiral Robison. They include some improvements and repl

ments, new steel masts instead of wooden masts.

Mr. Kelley. Is it imperative that these replacements be m this coming year?

Admiral Robison. I would not ask for them unless I felt they

immediately and really necessary.

Mr. Kelley. But sometimes officers do ask for things that are really imperative. It is like painting a house; you can postpon Admiral Robison. But I do not want these masts to fall do We have had two masts fall down this winter and I do not like

RENEWALS TO INDUSTRIAL YARD EQUILMENT, MAINTFNANCE OF EQUILMENT MILITARY STATIONS, ETC.

Mr. Kelley. Take the next item.

Admiral Robison. Major renewals of industrial yard equipm \$200,000; maintenance of equipment at military stations, \$200,000; repairs to equipage in store, \$300,000; models, tests, and exponents, \$150,000. I have labeled as contingent a figure of \$350,000 and I have an item of cost of commissioning vessels—that is, equipment we put aboard them—\$50,000. That contingent is contingent in the ordinary sense of the word. It is to provide excesses in one or the other of these particular items I have mentioned, and all other items of the appropriation, excesses at the amounts I have given, which may be less than the amount will be needed in some cases. I am going to try to live within figures I have given, but I do not believe I will be able to do it,

will be glad to furnish you with the facts upon which I base that **ate**ment.

Mr. Kelley. Is that all?

Admiral Robison. No; that is not quite all. That is a total of **,250**,000.

Mr. Kelley. That is the total of the last items you have menmed ?

Admiral Robison. Yes, sir.

Mr. Kelley. What else?

EXPERIMENT STATION.

Admiral Robison. Experiment station, \$82,000, and that is relired in addition to the special appropriation you have made for experiment station. The labor force there is paid out of the 200,000 appropriation for the station and the materials used there, at the technical and clerical force is paid out of the engineering propriation itself, and the amount of the "engineering" expense on count of the experiment station is \$82,000. We have in addition that an item of \$665,312.80.

Mr. Kelley. What is that?

PAY OF CLASSIFIED FORCE.

(See p. 541.)

Admiral Robison. Classified force at nonindustrial yards paid for at of engineering appropriations and for inspection forces.

Mr. Kelley. What else?

Admiral Robison. That is all. There are a lot of other items I puld put in but I have left them all out, and I have done it deliberely in order to arrive at a figure that is as low a figure as it is esible to give, in my opinion, without providing for any improveents anywhere.
Mr. Kelley. You do not mean quite that.

Admiral Robison. I almost mean that.

Mr. Kelley. Because there is \$1,000,000 for radio improvements. Admiral Robison. Well, where I have to make a change and here I have to make a replacement, any way, I have included the roper change or replacement, but I have made no change that was at immediately demanded. I have got to put up two masts, that a certainty, whether they be steel or wooden masts. This is the

aly sort of improvement that I have included in my estimates. Mr. Kelley. Then these items, including the radio, amount to

1,819,672.80, plus what you have for the ships? Admiral Robison. Yes; plus the amount I have for the ships, **9,74**0,165.

Mr. Kelley. And you are asking for about \$14,000,000?

Admiral Robison. \$14,559,837.80.

Mr. Kelley. As to the classified service, how much of a cut have

ou made under the current year?

Admiral Robison. Last year we had 1,089 at yards while at resent we have 978; 44 of them are to be paid for next year under be Bureau of Aeronautics, so that gives us 934, and that is as of he 8th of March.

Mr. Kelley. All of your "Increase of the Navy" classified series is paid for out of that fund?

Admiral Robison. That is not all, as I recall it; that is for the

navy yards.
Mr. Kelley. As I say, the "Increase of the Navy" classified service is paid for out of this fund?

Admiral Robison. Yes, sir.

Mr. Kelley. I think the law requires you to charge it here.

Admiral Robison. It does.

Mr. Kelley. So the \$665,312 is the whole thing and we a reduce the limitations we have in the bill, from \$2,500,000. which we allowed you to spend last year, to-

Admiral Robison (interposing). The \$665,312 covers only classified force not at industrial yards, we are spending at this time at a very decreased rate; including classified force at industrial yards we are spending at present at the rate of \$1,944,240.19.

Mr. Kelley. And you are making a cut to \$665,000 for next

Admiral Robison. No; the \$665,000 does not represent all of the clerical force. The clerical force at the yards is charged into the work on ships as overhead expense.

Mr. Kelley. I thought the law required you to charge all of you

classified service to this appropriation.

Admiral Robison. It does; but I have it charged—

Mr. Kelley (interposing). Some of this is in these other items: w ought to have this classified service altogether.

Admiral Robison. Well, I have some more of this, and I can cover the classified service rather completely.

Mr. Kelley. Let us have the full amount for it.

Admiral Robison. We now have employed in the Bureau ! technical employees and the annual expense is \$179,305.18: now have employed at navy yards and stations, exclusive of bureau—well, some of them are going to be charged to aeronautical and do you want me to exclude those who are going to be charged to aeronautics?

Mr. Kelley. No; let us have everything that is to be paid out of

this fund next year.

Admiral Robison. Nine hundred and thirty-four, with and compensation of \$1,684,030.77. We have 94 clerks employed at the bureau.

Mr. Kelley. That is in another place.

Admiral Robison. That is in addition to the technical employees I only gave you the technical employees at the bureau, and I have not given you the clerks who have been paid under the legislative hill.

Mr. Kelley. We do not want that; we just want what is paid for out of this fund.

Admiral Robison. We have transferred to the Bureau of Acrenautics and to the Secretary's office certain clerks who are not in cluded in the figures we are submitting.

Mr. Kelley. \$1,863,335.95 is the sum total of your classific

service paid out of this appropriation?

Admiral Robison. That is it.

- r. Kelley. That is almost exactly three times what it was in i.
- dmiral Robison. Yes, sir; and in that connection—
- r. Kelley (interposing). Can you not help us a little on that?

DECREASED USE OF FUEL OIL.

dmiral Robison. Yes, sir, and I would like to give you some rmation. The commander in chief of the Asiatic Fleet sent in—I received it about three days ago—a letter from the commander he destroyer squadron out there reporting that the destroyer idron had decreased the use of fuel oil 49.8 per cent at anchor and per cent underway.

r. Kelley. Who made that report?

dmiral Robison. That comes from Asia; Admiral Strauss fords it, and it is from Capt. Willis McDowell, and I would like to what he ascribes that to.

r. Kelley. How he did that !

dmiral Robison. Yes. It is believed that these gratifying resare due to the policy of engineering officers exacting compliance the Bureau of Engineering's instructions regarding methods of ation, routine inspections, and tests. It is believed that the ructions contained in the pamphlets dealing with fuel-burning allation, distillation, and boilers have been most important in ining this increase in economy. That is what I am using these for.

r. Kelley. To force compliance with your instructions? dmiral Robison. No; but to make the instructions of such manivalue as to demand compliance with them. I have these menoting information, collating it, pointing out improper methods peration and of maintenance, and emphasizing the best methods peration and maintenance until I feel sure that if I can keep them nat work—it will take me, perhaps, two years—I will have comit a manual of engineering instructions that will be a model for

world.

r. Kelley. How many men are you using for that? dmiral Robison. I have every last mother's son working on that rectly, and I have about 10 of them working on it solely; but every is doing something; every officer I can get hold of is doing someg with it, and I glean information from the log of every ship.

r. Kelley. Do you think that Admiral Strauss's division was more wasteful than any other division until they began putting

information into force?

dmiral Robison. My information leads me to think it was not. r. Kelley. What is the relation of the oil used under way to the used in port!

dmiral Robison. About one-half, I think.

r. Kelley. That would mean a tremendous sum of money in

imiral Robison. We sent from the Pacific to the Atlantic 11 3. They were in two lots—destroyers. They had been trained ther. One of them on the trip from Colon to Charleston, S. C., 53,736 gallons of fuel oil. Another ship, exactly like it, except condition of maintenance, wear and tear, and personnel, used

92,451 gallons. That is 80 per cent difference. One of them got there with enough fuel to fight and come back, and the other

Mr. Byrnes. What is the explanation, personnel, or what? Admiral Robison. These ships were built in the same place. The were sister ships in every particular, except personnel, not only personnel on board, but the personnel that had been on board in past. It was the condition of the machinery. Gentlemen, we ha now on hand on the vessels in this list that we will keep in commiss if we have 65,000 men, an amount of work required in order to the machinery on all of those ships in good operating condition to is simply appalling. I can not reduce the amount of this need work one cent with the appropriation I have asked for, not one a

AMOUNT NEEDED TO BE EXPENDED ON MACHINERY OF SHIPS, 1923.

Mr. Kelley. Do you mean to say that the destroyers are in l condition?

Admiral Robison. I do not.

Mr. Kelley. In good condition?

Admiral Robison. Generally speaking; yes, sir. There is \$16.0 000 that I know of that has to be spent on the machinery of the sl of the Navy to make them fit for action. How much more, I do know. The ships to be kept in condition next year, the smallest I have seen, starts off with 12 battleships. You have to perform those ships \$5,955,053 worth of work right now.

Mr. Kelley. That would be \$600,000 a ship.

Admiral Robison. That includes besides the 12 battleships all ships on this list that is headed with 12 battleships. Here is a c pilation of the various items by ships.

Mr. Kelley. You gave us the unit cost, by the way?

Admiral Robison. Yes, sir. That did not include any of this: I gave you the figure that is necessary to keep us from g further behind or I gave you the figure that will enable us to m tain our present rate of going behind or ahead, I do not know w. we are doing. We have now on hand this amount of work that to be done before the machinery of the ships is ready for such ser as the ship is fitted by design to perform in peace or in war. not ask for one cent for that purpose and I have not. I am authorized to ask for it.

Mr. Kelley. What is the matter with the ships over and al the current repairs?

Admiral Robison. \$6,000,000 of current work that is not d

that is one thing.

Mr. Kelley. Do you mean that the limitation which Congress put on you of \$300,000 a ship does not allow you to do that?

Admiral Robison. No, sir. I mean that the limitation that gress has put on me of \$20.500,000 does not allow me to do that w I know you do not believe it; but I can not help it.

Mr. Kelley. Then, if I were running the Navy I would spend

money on useful ships.

Admiral Robison. That is what we are trying to do. In: 1914, 1915, 1916, and 1917 you gave us on an average \$3.5 horsepower per annum to maintain our ships. That applies to

ip that we had, whether in commission or out of commission, active r inactive. I just included all of the power and all of the ships. ast year you gave us \$1.75. You can not do the work at that rate.

Mr. Kelley. That is because you have the Navy filled up with ank, with old stuff that you picked up in the war, tankers, tugs, achts, cruisers, subchasers, and eagles, a lot of stuff that is simply ≥eadwood, and as long as you spend money on that kind of junk ou will not have it for these important ships. That is why we are soing to fix it, if we can, so you will not spend the money on this mk, but will spend it on valuable ships.

Admiral Robison. I want to do it. I might mention the most necessful commercial ship operator in this country—I can not mention his name—spends for quadruple expansion engines \$19.96 an each horsepower and for triple expansion engines \$16.17 per

Lorsepower.

Mr. Kelley. Let us see where you spend your money.

Admiral Robison. I will explain that the expenditure for engineermg is going more and more into the ships, more into the ships to-day han ever before. I am going to get just as much more there as I bossibly can. That is why I have more materials going on the ships -day than a year ago, spending \$1,000,000 a month less, as I stated **∞me** time ago.

EXPENDITURES FOR REPAIRS, 1922.

Mr. Kelley. You spent on all the battleships, first and second ine, the whole business, \$730,000 for repairs. How much did you have in your appropriation this year for repairs?

Admiral Robison. The total amount in my appropriation for this

Fear was approximately \$1,700,000 per month, \$20,500,000.

Mr. Kelley. You had \$20,500,000 and you spent \$730,000 on these 3hips ?

Admiral Robison. In what time?

Mr. Kelley. Three months.

Admiral Robison. That is right.

Mr. Kelley. That is only \$730,000; you spent \$24,000 on armored cruisers; \$15,000 on cruisers of the first class; \$27,000 on cruisers of the second class; \$128,000 on cruisers of the third class; on destroyers you spent \$785,666.24; you spent \$172,765 on the submarines, that is on all of the submarines; you spent a lot of money on the subchasers?

Admiral Robison. I may have; I admit it.

Mr. Kelley. You spent for repairs alone on some of them \$5,000, some of them \$2,900, and some of them \$1,724?
Admiral Robison. Putting in a new engine costs money.

Mr. Kelley. I know; but they are not any good after you get the You spent \$121.016 on those little craft? new engines.

Admiral Robison. Yes, sir.

Mr. Kelley. Here are the Eagle boats, \$36,162.95. On the enders for torpedo boats, which, of course, you have to have, you pent \$106,000. On gunboats, \$44,867 in three months. On transorts, \$12,953. On fuel ships, \$382,512. On mine sweepers, which re nothing but tugs, \$216,647, and in three months on repairs to onverted yachts and patrol vessels, \$205,729. There are some more tugs, tugs galore, \$200,685.78, and so on. I am not halfware through with this situation of the first three months. You can not complain if you do not spend the money on the important ships?

Admiral Robison. No, sir.

Mr. Kelley. Of course, you were not responsible for the ships in

Commission; you had to repair the ships they were using?

Admiral Robison. I have nothing to say as to that, of course.

Mr. Keller. That is what we are trying to do—trying to work this thing better. These are hard times in the country. Congress wants you to have the money that is necessary to repair and keep in good shape the ships that you would use if you were in trouble. We are anxious to do that.

Admiral Robison. See the list that I gave you.

Mr. Kelley. Yes, sir. Of course, we have all the same idea in mind. I have been impressed the last five or six years more and more all the time that the Navy was just swamping itself with trying to keep up stuff which was not any good. If you and the other officers, in conjunction with the Secretary and the Assistant Secretary, would just make one grand slaughtering of this stuff that does not contribute to the national defense, stop repairing it stop burning oil on it, and stop putting engines in it, the country would be perfectly willing to support the fighting part of the Navy, and there would not be a particle of difficulty about the appropriations.

Admiral Robison. I believe you.

Mr. Kelley. I believe that if we can all work that out together this year, we will have saved the taxpayers on the one hand at the same time we will have given the Navy everything that is necessary to make it effective. We want to give you the men and the money for repairs, but not until after you have taken out the deadwood, the junk, and the old stuff that really does not contribute much to the national defense. You can see how it runs into terrife sums of money.

Admiral Robison. It is worth while that you should note this

list here; that is something that is an order to me.

Mr. Kelley. That is all right. You have given us the best has for making up your appropriation that could possibly be given. You have given it by the unit, and when we determine in conjunction with the Secretary just what ships we will appropriate for—of course, that does not mean that these ships will have to be run, but it approximates the same—your table will give us the necessary data to furnish the money.

Admiral Robison. I should like to invite your attention to the fact that on the ships on this list that are shown in full commission there are now on hand \$1,113,500 worth of repairs to be accomplished on the machinery. There are \$4,841,553 worth of alterations that

have been ordered.

Mr. Kelley. I suppose that human nature runs pretty constant and that every manufacturer runs up against the same thing. The experts in charge of the various machines in the different departments will suggest to him repairs and improvements that would swamp the factory if the manufacturer were to carry them all out.

Secretary DENBY. I recall distinctly that an order went out a long time ago that nothing whatever but military repairs would be put

on these ships.

Mr. Kelley. That is right.

Secretary DENBY. We are trying our best to do exactly what you re talking about. It all passes through the bureau, and if the repair not deemed a military repair it is disapproved.

Mr. Kelley. When the admiral brings in a paper and says I

equest that, that does not signify anything?

Admiral Robison. I do not do that.

Mr. Kelley. What you do is put it up to him as being necessary? Admiral Robison. No, sir. There is no order issued until it has een gone over and studied.

Mr. Kelley. The Secretary has to take your word for it?

Admiral Robison. I have never had a chance to make a recomlendation to him that any repairs or alterations be authorized.

Mr. Kelley. You make it to the Secretary, your immediate rief?

Admiral Robison. I have never made one to the Secretary.

Mr. Kelley. Where does he get this information?

Admiral Robison. There is never one job authorized directly pon the recommendation of any bureau chief. I know that every ne of our recommendations in that line is revised prior—they go o the Chief of Operations and they have been radically reduced.

Mr. Kelley. I do not know the machinery. The Chief of Opera-

ions is in control of the fleet.

Admiral Robison. The result of that is that the amount of authoræd alterations has been cut down to include what has been approved y the bureaus concerned in the past and what have been passed pon by the military officers as essential for military reasons on the hip. They are not being done and they are probably not going be done until they have to be done on account of war. When ar comes, these ships will not be ready until the \$6,000,000 has been pent. That is all there is to it.

ENGINEERING COST PER HORSEPOWER.

Secretary Denby. Admiral, you did not complete your statement s to the relative cost per horsepower in a well-conducted merchant

arine establishment as against the cost in the Navy.

Admiral Robison. There is a well-known ship company that has 19,000-ton single-screw, quadruple expansion tanker of 2,900 orsepower, and the annual engineering cost of that vessel is \$19.96 r horsepower. That same company operates a twin-screw triple exansion tanker with an annual engineering cost of \$16.17 per horse-That is the most successful ship-operating concern in the states. Those ships were having a high cost, because they nited States. ere tankers and were being driven hard. They were operating ractically at full power, and those costs are not correct for usual erchant service costs. The usual merchant-ship practice is to allow per horsepower per annum for repairs to their ships. In the steel ills, where we have the heaviest and most massive machinery there the cost per horsepower is higher per annum than it is in the Navy. Mr. Kelley. But they run all the time.

Admiral Robison. No, sir; I wish they did, but they do not.

Mr. Kelley. When they do not operate, they do not allow that

Admiral Robison. No, sir; but that is the cost just the same. Their cost exceeds ours.

The Chairman. The movement of that machinery is much greater

than the movement of a battleship.

Admiral Robison. That is the only way possible. We have the lightest machinery in the world, and the most delicate apparatus. That was the difference between a quadruple-expansion and a triple expansion engine operating under similar conditions, one costing 40 per cent more than the other. It was an improved machine and used less fuel but its repairs cost more. We have the most efficient machinery in the world.

Mr. FRENCH. How does the efficiency compare there as to full consumption, or is there any way by which you could compare that?

Admiral ROBISON. There is no ship in the world that touches the fuel-operating efficiency that we are getting from our latest battle-

ships.

The CHAIRMAN. That is due to the fact that you put in material that is so much more expensive than the material that goes into the other machinery. If your first cost were added to the cost of the repairs it would more than offset the cost of maintaining their machinery. I know something about machinery.

Admiral Robison. Obviously, because if it were not that way it would be the commercial practice to use the type of machinery that

we use.

Mr. French. How does your efficiency in the use of fuel comparwith theirs!

Admiral Robison. That is what I am referring to.

Mr. Kelley. You mean efficiency of the engine and not of the crew. Do your engines, operating normally, use less fuel than the

commercial ships use !

Admiral Robison. Yes, sir. We are using less on these last battle ships than they use on commercial ships. While our destroyers are operating with higher efficiency, as compared with the commercial ships, their machinery is so light and fragile, and it must be kept so clean, and you must put so much care upon it to prevent loss through deterioration, that our maintenance costs must be high. We avoid that high cost by doing the work aboard ship with the ship's force. The men on shipboard do most of the work. A man who was a farmer two years ago is a mechanic to-day, and, really, that is the way our ships are being maintained.

Mr. Kelley. Somebody made the estimate awhile ago that it would cost about \$12,000,000 for the ships of the Navy if they were in commission and were just lying up at the docks with the necessary fire in the boilers. If the efficiency that Admiral Strauss has put into effect with regard to the destroyers out there were made uniform throughout the Navy, it would reduce that cost from \$12,000,000 to

\$6,000,000.

Admiral Robison. No, sir. It would, so far as those destroyes go, yes, sir; and that has been in operation at Charleston and San Diego. The battleship Nevada six years ago used 241 gallons of fuel oil per hour in port, summer time, and now she is using in winter 195 gallons per hour. There is an improvement that is absolutely due to operation in the ships. That may come from better training of the personnel, from improved apparatus supplied to the ships.

d better engineering. It comes, I believe, from better training and tter supervision by the officers of the ships. The latest ships are ing much better. The *Tennessee* is using 115 gallons of oil per

Mr. Kelley. We may want you to come up when we reach the propriation for fuel.

Admiral Robison. I will come up.

PAY OF CLASSIFIED FORCE.

(See p. 533.)

Mr. Kelley. Let us go back to the classified service. You ask te for \$665,212.06 How much in addition to that are you asking

Admiral Robison. Nothing else. That is the classified force. ose figures include some classified force I have already given you. you will look in the report of the Paymaster General, from which ose figures were obtained, you will note under "cost of commisning a considerable amount that is set aside for overhead.

Mr. Kelley. On page 62 of the bill there is a limitation of 500,000 for classified service. How much can we reduce that

are in the bill?

Admiral Robison. You can reduce it to \$1,850,000. If you cut it figure so that I have got to stop the collection of information, will cut the possibilities for making improvements in operations. Mr. Kelley. We do not want to do anything that will reduce ir efficiency.

Admiral Robison. If you cut down the number of the navy yards

commission, that figure will fall automatically.

Mr. Kelley. Of course you know as much as anybody about the ns of the Navy Department in regard to the navy yards. How ch would you say this could be cut by reason of what you know that respect?

Admiral Robison. I would not say anything. I do not know that

y will close any navy yards; do you?

Mr. Kelley. No. If the navy yards were reduced in their activis, would not that make some difference?

Admiral Robison. No. sir; the cost of doing nothing is very great.

Mr. Kelley. If you close down certain units-

Admiral Robison (interposing). They are cutting them; but that es not affect the classified force. That affects the foremen or the pervisory forces. The classified force can not be cut down much ept by closing the yards, and that is really about all that the sing will gain you.

ofr. Kelley. What do you mean by that?

Idmiral Robison. If you close a navy yard, your net gain will be classified force of the yard.

Ir. Kelley. You have the mechanics?

idmiral Robison. No, sir: because you will have them at work. ey are doing work and are doing good work. It does not matter ch yard they are in, because you will have to move them from one e to another.

Ir. Kelley. You would not discharge any of them?

Admiral Robison. We are not doing any unnecessary work.

Mr. Kelley. But if you take all of those craft out of commission-

Admiral Robison (interposing). That appears in the decreased amount you have set aside already under these titles.

Mr. Kelley. The classified service, you think, would not be changed as long as the yards were not closed?

Admiral Robison. I am sending out letters telling them to cut. but they do not seem to cut much.

Mr. Kelley. They will not until you actually tell them to stop.

Admiral Robison. We will have to close yards before we can make much difference in the number of the classified employees. Every time you close a navy yard it will save the Government about \$1,500 per day.

Mr. Kelley. In the classified service?

Admiral Robison. I suppose so, taking all appropriations affected into consideration.

TOTAL NUMBER OF EMPLOYEES IN NAVY YARDS.

Mr. Kelley. Who has the information as to the total number of employees in each navy yard!

Admiral Robison. The Assistant Secretary.

Mr. Kelley. Colonel Roosevelt, will you put in Admiral Robison's statement at this point a statement showing the number of employees in the navy yards, yard by yard, as of the last available date?

Colonel ROOSEVELT. I will do so.

Mr. Kelley. I am referring to the classified employees.

Colonel ROOSEVELT. In the industrial yards?

Mr. Kelley. Yes; in all the navy yards.

Secretary Denby. Do you want that information for the shore stations in addition to the navy yards?

Mr. Kelley. I suppose we had better have it complete, and then we will know the total number of civilian employees in the Navy.

Colonel Roosevelt. We will get that statement up.

Mr. Kelley. Put in a table that will illuminate the situation & to the civilian employees outside of the Navy Department, and who are paid for out of naval funds.

Colonel ROOSEVELT. That will be supplied.

Note.—This table will appear at end of hearings.

NAVAL PETROLEUM RESERVES.

Admiral Robison. There is one item I would like to ask you about. and I have authority from the Secretary to ask about it, and that is this: In the purposes of the appropriation for Engineering I wish you would include specifically the care and preservation of the naval petroleum reserves. That is something that has hitherto been under the Interior Department. You turned over to them the work in connection with those reserves, but it is not included in the appropriation for the Interior Department. I received notice from Secretary Fall that it was decided that it should be included in the naval appropriation bill, because it is a naval activity that he is performing for us. It is on the same principle of an activity performed by one er to take charge of that work. If you put in a separate item t, I would like to have \$100,000 authorized, because it may cost much; but if you do not put in a separate item and include it ne purposes for which the "engineering" appropriation is made, buld like you to add \$50,000 to the total sum, because that is t I hope to limit it.

r. French. I think that the admiral ought to submit the language is necessary in order to cover this matter. The Interior Departt committee cut it out of that bill, feeling that it was a charge

ought to be carried by the Navy.

dmiral Robison. The added item should read: "To provide for care, custody, and operation of the naval petroleum reserves." r. Kelley. It was estimated for in another bill and was cut out

r. French. We cut it out absolutely. The Interior Department, ugh the Bureau of Mines, has offered to do the work. We did challenge that, but we felt that the expense should be borne by department that receives the benefit.

r. Kelley. Why do you want \$100,000?

dmiral Robison. They are opening two reserves considerably, reserves that were in the ground were being drained by outisde ces, and it has become necessary in order to preserve them to up them out.

r. Kelley. What do you want with the \$100,000?

dmiral Robison. To allot to the Secretary of the Interior.

r. Kelley. What will be do with it? dmiral Robison. I do not know.

r. Kelley. Who has the details of the \$100,000 estimate? dmiral Robison. That would be under Secretary Fall. He has it \$15,000 during the last four months. He is opening up another rve, and I figure that next year he probably will spend something xcess of \$50,000. It might be \$100,000.

r. Kelley. It is all for the employment of people?

dmiral Robison. It is all for people; yes, sir.

r. Kelley. Are they expert people or ordinary employees? dmiral Robison. I have now one naval officer on the retired list, tain Landis, who is employed, and I had calculated to dispense his services, because I did not think there was any use in our ing another man there. He is the only expert that I have had hing to do with.

r. Kelley. The Interior Department has made all the arrangets for the help, but you do not know how much they require?

do not know how many people they will employ?

Imiral Robison. No, sir.

r. French. Probably I should say that the Admiral stated, when as talking off the record, that the Interior Department, through Bureau of Mines, is charged with the responsibility under the of gauging the oil as it comes out, and reporting that which should a royalty to the Government. Necessarily that work must pt up to date if the Government is going to receive the revenue it should receive from the royalties.

. Kelley. I know about the purpose, but I want to know the

er of men to be employed, and at what wages?

Mr. French. That depends upon the amount of oil.

Mr. Kelley. Somebody has made an estimate covering a certain number of men at certain prices.

Admiral Robison. I do not know that an estimate of any kind

has been made.

Mr. Kelley. How did you guess at the \$100,000?

Admiral Robison. I guessed at it because they had \$15,000 in the last four months.

Mr. Kelley. What did they do with the \$15,000 they drew during

the past four months?

Admiral Robison. I do not know.

Mr. Kelley. We are very much obliged to you for your statement.

SATURDAY, MARCH 18, 1922.

BUREAU OF CONSTRUCTION AND REPAIR.

STATEMENTS OF REAR ADMIRAL DAVID W. TAYLOR, CHIEF, AND MR. HENRY C. BRUNNER, CHIEF CLERK.

ALLOCATION OF ESTIMATES BY CLASSES FOR 1923.

Mr. Kelley. We have with us this morning Admiral Taylor, Chief of the Bureau of Construction and Repair, and his assistant. Under the Bureau of Construction and Repair you have an appropriation for this current fiscal year of \$22,500,000 for the construction and repair of vessels. How much do you estimate you will need next year?

Admiral Taylor. The estimate is \$20,000,000.

Mr. Kelley. Have you the details of that? Admiral Taylor. Yes, sir. That estimate was arbitrarily reduced from \$24,500,000, which was our real estimate. We figured for a expenditure on vessels in commission of \$14,200,000.

Mr. Kelley. How is that divided by classes?

Admiral TAYLOR. For the battleships in full commission the estimate is a little over \$2,400,000; for flagships the estimate \$280,000; that is, for five flagships, independent of the battleships that are flagships. We figured at that time on four light cruises, but that has been reduced to three, for which the estimate is \$200,000. For destroyers in full commission, the estimate is \$1,000,000.

Mr. Kelley. How many destroyers did you figure on there? Admiral Taylor. On 65 in full commission. For destroyer tenden

the estimate is \$288,000.

Mr. Kelley. The cost is more for tenders than for destroyers? Admiral Taylor. Yes, sir; the tenders are much larger ships and much more expensive ships than the destroyers.

Mr. Kelley. There are only 5 or 6 of them.

Admiral TAYLOR. There are S of them, or we have 8 on this list For 81 submarines, the estimate is \$1,300,000, and for 6 submarine tenders, the estimate is \$210,000. In addition to that, there a number of submarine tenders at shore bases, and the estimate there amount to about \$75,000. For 2 mine layers, the estimate is \$80,000, and or 14 light mine layers, or those that were converted from destroyers, he estimate is \$560,000. For 16 mine sweepers, the estimate is 190,000; for 2 aircraft tenders, the Aroostook and the Wright, which ppresent a new type of vessels, the estimate is \$85,000 for both. As agards the Wright, we do not know what the estimate should be, but re figure that the cost will be about \$85,000 for the two. For 2 epair ships, the estimate is \$64,000; for 2 hospital ships, \$120,000;

target repair ships, \$60,000; 2 ammunition ships, \$80,000; 5 store hips, \$280,000; 18 oilers, \$640,000; 5 colliers, \$300,000; 13 transport nd cargo vessels, \$700,000; a radio repair ship, \$40,000; 17 patrol essels, mostly gunboats, \$200,000; one survey ship, \$20,000; 2 Fish commission ships, the Fish Hawk and Albatross, \$12,000; 12 specialuty vessels, \$70,000; 30 fleet tugs, \$360,000; 60 harbor tugs, 240,000; 25 Eagle boats, \$4,000 each, \$100,000; 45 subchasers, \$4,000 ach, \$180,000; and 30 miscellaneous vessels amounting to about That makes the total for the vessels in commission about 10,400,000, although that is not the exact amount.

For vessels in reduced commission, the estimates are as follows: Ine experimental ship, either the *Michigan* or the *South Carolina*, 32,000; the cruiser *Charleston*, \$20,000; 21 submarines, \$84,000;

2 mine sweepers, \$48,000; and 213 destroyers, \$2,550,000.

For vessels out of commission we figure, in round numbers, 1,000,000.

Mr. Kelley. Without any details?

Admiral TAYLOR. Without any details. That makes the totals or vessels \$14,000,000, in round figures.

ALLOTMENTS FOR BATTLESHIPS.

Mr. Kelley. What is the average for each battleship—\$150,000? Admiral Taylor. \$170,000 is the regular figure on each battleship.

Mr. Kelley. You have 18 battleships?

Admiral Taylor. \$170,000 is the proper figure on each battleship. We have arbitrarily reduced those estimates by 20 per cent, and the educed figure is \$136,000.

Mr. Kelley. You are asking \$2,400,000 for how many battleships? Admiral TAYLOR. That is about 18.

Mr. Kelley. That would be about \$133,000.

Admiral Taylor. \$136,000 on the 20 per cent basis.

Mr. Kelley. You are taking 20 per cent off?

Admiral Taylor. I want to explain that figure of \$170,000. Our stimates were arbitrarily cut 20 per cent, because our estimates were really \$24,500,000, and were arbitrarily cut to \$20,000,000; \$24,500,000 is what we really need in order to carry on the work properly, and we probably will have to let battleships go unrepaired to some extent. Those estimates were based on the operating plan They were submitted last September. it that time.

ALLOTMENT FOR CRUISERS.

Mr. Kelley. Have you the names of the five flagships? Admiral Taylor. Yes, sir; the Rochester, the Olympia, the Huron, he Connecticut, or the Seattle, and the Birmingham or the Columbia. Mr. Kelley. The Olympia is not to be continued, is it?

Admiral Taylor. She was in the operating plan at that time.

Mr. Kelley. If we reduce that number to four, and the Olympia is taken out, what would that take off in the way of flagships, or how much would that reduce the estimate?

Admiral Taylor. With the Olympia out, it would reduce it about

\$80,000.

Mr. Kelley. You have \$280,000 for the five, and the Olympia's

one of the largest of them?

Admiral Taylor. We have six, but I presume the *Columbia* is out. She was included last September.

Mr. Kelley. You would have four instead of six by taking the

Olympia out.

Admiral Taylor. It would make the estimate about \$200,000. Mr. Kelley. Now, the three cruisers are the three new ones?

Admiral Taylor. Yes, sir.

Mr. Kelley. Do you think you will need \$200,000 for them next

year !

Admiral Taylor. They always need a great deal the first year The first year after a vessel is in commission there are changes to be made, and we do not charge up to the cost of the ship any change that are necessary after it goes into commission. We do not charge up anything to the first cost of a ship after the ship is in commission.

Mr. Kelley. You would not take off anything there?

Admiral TAYLOR. They are a new type of ship, and are to some extent experimental. They are entirely new types in our service. and I expect that developments will require some considerable expenditure upon them.

ALLOTMENT FOR DESTROYERS.

Mr. Kelley. Suppose instead of having 65 destroyers in commit sion, you had 103: How much would that increase that estimate! Admiral Taylor. Do you mean in full commission?

Mr. Kelley. Yes.

Admiral Taylor. We figure that we should have \$20,000 for each destroyer in commission.

Mr. Kelley. You have only \$1,000,000 down for 65.

Admiral TAYLOR. We arbitrarily reduced those figures as we wa along, and we did not suppose that we would be able to operate those destroyers on four-fifths of what we needed for them. Our estimates were originally nearly \$25,000,000, and they had to be cut.

Mr. Kelley. Suppose you had 38 more destroyers? Admiral TAYLOR. That would mean \$760,000.

Mr. Kelley. We have 103 destroyers already rigged up and ready

for business.

Admiral Taylor. I was going back to the question of the scouts Mr. Kelley. So you will need that for outfits as well as repaire Admiral TAYLOR. Yes, sir; and we must allow a certain sum money to send for maintenance.

Mr. Kelley. If you have 103 destroyers in commission, we wi have to add \$760,000. Now, suppose you had all the other destroy ers out of commission, as the Secretary contemplates doing with number of them, or if you had them laid up completely, white leaded, greased, and painted, and laid away, what would be the difference (

Admiral Taylor. There would still be some expense for them. Mr. Kelley. How much would it take out of the estimate for those reduced commission?

Admiral Taylor. We figured \$15,000 for reduced commission.

Mr. Kelley. \$15,000 for each one?

Admiral Taylor. Yes, sir; because they are operating with a force.

Mr. Kelley. Well, if they are out of commission entirely?

Admiral TAYLOR. If they are out of commission entirely, the exanditures will be comparatively small the first year, except for ship sepers to look after them.

Mr. Kelley. That is a rather small item coming out of "Pay of

e Navy," is it not?

Admiral Taylor. No, sir; they come out of our appropriation. Mr. Kelley. How much would it amount to per destroyer?

Admiral TAYLOR. That alone would amount to about eleven or velve hundred dollars apiece, assuming that you had one ship keeper r three destroyers. We have not had enough experience in that give you a fair estimate, but that would not be far off from what it ould be. A ship keeper works 365 days in the year, caring for three ips, at \$3.28 per day, and three are required to cover a 24-hour day. Mr. Kelley. You would have 276 destroyers.

Admiral Taylor. No, sir; not as many as that. There would be

Mr. Kelley. We have 278 altogether, and if you take out 103, it ould leave 175 out of commission.

Admiral Taylor. That would mean \$180,000 for ship keepers

Mr. Kelley. What other expense would there be?

Admiral Taylor. The condition as to the ship would be the same s if you shut up your house and went away. A window might be roken, a storm would come along, the roof might leak, and if we ad exceptionally bad weather, perhaps they would have to clean the now off.

Mr. Kelley. \$250,000 would cover it?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. Then, you could take off \$2,250,000 from your renced commission appropriation, if we laid up that many, and you rould add \$760,000 at the other place?

Admiral TAYLOR. Is that the way it figures out?

Mr. Kelley. Is that right? Admiral TAYLOR. Yes, sir.

ALLOTMENT FOR DESTROYER TENDERS.

Mr. Kelley. Now, you figure on eight destroyer tenders, and on he new basis suppose you figure on six destroyer tenders. ave 103 in commission, making 19 for each squadron and there rould be five squadrons. If you had five squadrons with 19 in each quadron, that would take 95, and if you add eight for the Mediternean service, it would make up the 103. They would require six **enders**, would they not?

Admiral Taylor. We put the tenders down at \$45,000. We are etting mixed up, because the figures which I have given you were even to explain that \$20,000,000 estimate. Our estimate was arbitrarily cut, and I would rather have you figure on what we rea need when you attempt a reduction, because when you attempt reduction it should be borne in mind that we have already arbitrar reduced the estimate.

Mr. Kelley. We can make that adjustment at the end. Youh

figured on eight tenders before you made the cut?

Admiral TAYLOR. The proper allowance for tenders, as well as can figure from previous experience, is \$40,000 each.

Mr. Kelley. This \$288,000 is at the rate of \$36,000 apiece. Admiral Taylor. That was after the 80 per cent had been applie

Mr. Kelley. Suppose we make the reduction wherever we chan the numbers, and then adjust the 20 per cent at the end. We c do that better on the total.

ALLOTMENT FOR SUBMARINE TENDERS.

Admiral Taylor. If you could give me the new numbers I think could tell vou.

Mr. Kelley. If 86 submarines were kept in full commission

would not change the figure very much?

Admiral TAYLOR. Not appreciably; no. sir. Mr. Kelley. And six submarine tenders?

Admiral Taylor. That changes it about \$100,000.

Mr. Kelley. That would make \$100,000 more?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. How many submarine tenders have they asked y figure on?

Admiral TAYLOR. Seven, sir.

Mr. Kelley. Was this \$210,000 for seven? I think you said ! as you went down the list, but the number appears to be seven!

Admiral Taylor. I did say six and it was seven at the shore be that was for the reduced submarine tenders, and the amount shot be \$45,000.

Mr. Kelley. Just leave your figures as they are and we will fig at the end whatever reduction you have made. You have reduc it somewhat to make your \$210,000 for seven? Admiral Taylor. Yes, sir.

Mr. Kelley. You spoke about shore base submarine tende How many were there of those?

Admiral Taylor. There were seven, sir. Mr. Kelley. Where are they located?

Admiral TAYLOR. At the headquarters of the submarines, N London, Hampton Roads, Key West, Coco Solo, San Pedro, Pe Harbor, and Cavite.

Mr. Kelley. I think they have spoken of only five here?

Admiral Taylor. They spoke of five vessels.

Mr. Kelley. What was your figure for the submarine tenders? Admiral TAYLOR. \$45,000.

Mr. Kelley. What was the total you gave on the first list? Admiral Taylor. It was 80 per cent of \$270,000, or \$216,000.

Mr. French. Is that for seven?

Admiral Taylor. That is for six, reduced 20 per cent.

Mr. Kelley. If you reduced the number and the amount both would reduce it double. Which did you do?

Imiral Taylor. The first operating plan contemplated six at 100 and I reduced that \$38,000 each as I went along in order to he 20 per cent off.

. Kelley. Is this \$216,000 for seven?

lmiral TAYLOR. That was for six on the original list.

. Kelley. You originally had \$45,000 for seven, had you? Imiral Taylor. No, sir; I originally had \$45,000 for six.

. Kelley. Which do they want you to provide for—six or

lmiral TAYLOR. The revised list is seven, and I think you have list there.

. Kelley. That would be \$315,000 less one-fifth, so as to get all on the same basis? Imiral Taylor. Yes, sir.

ALLOTMENT FOR MINE LAYERS.

. Kelley. That would be \$252,000 as I figure it. Shore base ers \$75,000; 2 mine layers, the *Aroostook* and *Shawmut*, and ine layers?

miral Taylor. Those are the light mine layers.

Kelley. They reduced those to 10 when they discussed the er with us.

| miral Taylor. I have four.

. KELLEY. You said 14.

Imiral Taylor. Fourteen in all, but that has been reduced to on the list I have.

Kelley. So the amount is not \$560,000, as you gave it before? miral Taylor. That was for 14, the original estimate.

Kelley. Let us reduce that to 10, just as they want it;

KELLEY. Let us reduce that to 10, just as they want it; much will that be?

miral TAYLOR. That will take off \$160,000 on that basis.

ALLOTMENT FOR MINE SWEEPERS.

. Kelley. You have 16 mine sweepers and they ask for 10? miral Taylor. Yes, sir.

. Kelley. How much will that take off of the \$190,000? miral Taylor. \$40,000 if you allow \$15,000 per mine sweeper.

ALLOTMENT FOR AIRCRAFT TENDERS.

. Kelley. Two aircraft tenders? miral Taylor. That is reduced to one.

. Kelley. How much will that be?

miral Taylor. \$55,000.

. Kelley. It takes \$55,000 off?

miral Taylor. No; it remains \$55,000.

. Kelley. Keep to your percentages or we will not be able to an adjustment at the end; we will not be able to make an tment if you try to correct that 20 per cent as you go along on and not on others, and when we try to correct it at the end we be at sea.

miral TAYLOR. That is true.

. Kelley. So do not do it, but keep to your figures and we will an adjustment at the end.

Admiral Taylor. I will try to do so.

Mr. French. Are these two tenders of different sizes and do t have a different cost for repair?

Admiral Taylor. Yes, sir.

Mr. French. One \$55,000 and the other \$30,000?

Admiral TAYLOR. Yes, sir: but the trouble is I took off one ter at \$55,000 and did not take 20 per cent off.

Mr. Kelley. Repair ships?

Admiral TAYLOR. There is the aircraft carrier which I did not; you in the original statement. The Langley is going to be comi sioned.

Mr. Kelley. The two aircraft tenders would just about equa

the aircraft carrier?

Admiral TAYLOR. It will be a little more than for the tenders: put her at \$60,000.

Mr. Kelley. That adds \$60,000?

Admiral TAYLOR. Yes, sir.

ALLOTMENT FOR REPAIR, AMMUNITION, AND STORE SHIPS.

Mr. Kelley. Two repair ships?

Admiral TAYLOR. That is reduced to one.

Mr. Kelley. Well, they asked for two, but we will let that go

Admiral Taylor. We have not quite the same list.

Mr. Kelley. We have had every kind of a list and I am tryin adjust this thing. We have been trying to get a list of the ve they would keep in commission for 65,000 men, but we have not l able to get it yet. Two hospital ships, \$120,000; two target re ships, \$60,000; two ammunition ships and five store ships: struck all of those off but three when we went over the list, the Br the Arctic, and the Rappahannock.

Admiral Taylor. That would be three-fifths.

Mr. Kelley. That would be \$125,000 off?

Admiral TAYLOR. Yes, sir.

ALLOTMENT FOR FUEL SHIPS.

Mr. Kelley. Eighteen oilers, but they are asking for only oilers. You probably would not want that many if they do not l all of those destroyers in reserve.

Admiral Taylor. That is 60 per cent.

Mr. Kelley. You could just about cut that in two?

Admiral Taylor. No; 60 per cent. Mr. Kelley. Take 40 per cent off?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. \$256,000. When did they give you the list as for 18 oilers ?

Admiral Taylor. That was last September, sir; and there we practical change in it between July and September.

Mr. Kelley. Four colliers are all they intend to keep in com

That would take off \$60,000?

Admiral Taylor. Yes, sir.

Mr. Kelley. Is the Ajax in your list?

Admiral TAYLOR. No, sir; she is not in the list.

ALLOTMENT FOR TRANSPORTS.

Mr. Kelley. You have four transports?

Admiral TAYLOR. We originally had 13 transports and cargo **-es**sels.

Mr. Kelley. And they are asking for 11 now. They are asking or the Henderson, Argonne, and Chaumont. They are transports? Admiral TAYLOR. Yes, sir.

Mr. Kelley. And the Kittery, Newport News, Bath, Capella,

Firius, Vega and Beaufort.

Admiral Taylor. That leaves out the General Alava.

Mr. Kelley. They have the General Alava in another place. **s** a ship that hardly rises to the dignity of a collier.

Admiral Taylor. That is a cargo vessel.

Mr. Kelley. Or a cargo vessel, either. Suppose you figure the ransports, the Henderson, Argonne, and Chaumont with the eight I named, or really seven, because the Pensacola is a station ship at

Admiral Taylor. The *Pensacola* is not in this list.

Mr. Kelley. Then figure the seven.

Admiral TAYLOR. That would be \$560,000 all told.

Mr. Kelley. \$140,000 off? Admiral Taylor. Yes, sir.

ALLOTMENTS FOR GUNBOATS AND PATROL VESSELS.

. Mr. Kelley. Are the gunboats and patrol vessels together? Admiral TAYLOR. Yes, sir.

Mr. Kelley. They have given us 14?
Admiral Taylor. They are all classed as patrol vessels and the number is reduced from 17.

Mr. Kelley. They keep the Mayflower in, of course? Admiral Taylor. We have her as a special duty vessel with the Albany, the Denver, the Isabel, the Niagara, the Quiros, the Villalobos, the Asheville, the Galveston, the Monocacy, the Palos, the Sacramento, the Wilmington, the Cleveland, the El Cano, the New Orleans, the Pampanga; and the Tacoma.

Mr. Kelley. That is practically the list. They give on the Yangtze Patrol, the Wilmington, the Palos, the Monocacy, the El Cano, the Quiros, and the Villalobos; in the Asiatic Fleet the Sacranento, the Asheville, and in the South China Patrol the Pampanga, and they added to that the Mayflower, the Vixen, the Sylph, the Nokomis, and Isabel.

Admiral TAYLOR. We have the Isabel on another list, and what they have done is to combine the patrol vessels with the special duty

ressels.

Mr. Kelley. That makes 14 instead of 17. It is not a very large tem and suppose we let it stand?

Admiral Taylor. I think you had better, sir.

Mr. Kelley. One survey ship?

Admiral TAYLOR. I think she is out.

ALLOTMENTS FOR SPECIAL DUTY CRAFT.

Mr. Kelley. The Hannibal; that is all right. The two Fish Commission vessels are all right. What about these special duty craft? That is where you have the Mayflower, is it?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. Then that other list is pretty large?

Admiral Taylor. I think the special duty craft practically all go

Mr. KELLEY. No; we have here the Mayflower. the Vizen the Sylph, the Nokomis, and the Isabel. They are all classed as special duty craft.

Admiral Taylor. We have the *Isabel* classed as a patrol vessel.

Mr. Kelley. They put these all down as patrol vessels?

Admiral Taylor. Yes, sir.

Mr. Kelley. And then there were four or five little ones requiring 30 or 40 men apiece, like the Osceola. Is she on your list? Admiral Taylor. Yes, sir.

Mr. Kelley. The Scorpion, however, is quite a ship?

Admiral Taylor. She is the station ship at Constantinople.

Mr. Kelley. We will just let that go. The 12 special duty craft would be reduced to about 5?

Admiral TAYLOR. Yes, sir; and there would be a saving of about \$30,000 or \$40,000.

Mr. Kelley. The 30 fleet tugs were reduced to 23? Admiral Taylor. That would be about \$80,000, sir.

Mr. Kelley. What about these 16 harbor tugs? We have not heard of them before, have we? They are included in the shore station establishments but you have to keep them in repair, do you?

Admiral Taylor. Yes, sir. They are classed as harbor craft

in the new list.

Mr. Kelley. They are manned by civilians, are they?

Admiral Taylor. Not now; no, sir. I am pretty sure that they are not, some may be.

Mr. Kelley. They would come in under our shore establishments! Admiral Taylor. Yes; they come in under the men ashore.

Mr. Kelley. Twenty-five Eagle boats. If you do not repair any of them you can take off \$100,000, can you not?

Admiral Taylor. If we do not repair any of them; yes, sir.

Mr. Kelley. And if you do not keep up any subchasers you can take off \$180,000?

Admiral TAYLOR. That is right; but we still have some subchases. Mr. Kelley. It is our hope that you will not run any of those any longer, and if we do not give you any money for them that will be a pretty good excuse for not running them.

Admiral Taylor. They are dwindling very fast.

Mr. Kelley. The faster the better.
Admiral Taylor. The Eagle boats are very popular with the

Naval Reserve, I understand.

Mr. Kelley. At that rate that saves the Government \$3,525,000; taking that off of the amount you gave, \$14,214,000, would reduce it to \$10,689,000; if you added 20 per cent to that it would be about \$2,000,000 making \$12,000,000?

Admiral TAYLOR. Yes, sir; but have you made allowance for the

vessels out of commission?

Mr. Kelley. We will go down through those. You see, the estroyers made the big item in that and we adjusted that. Suppose ou put these 41 subchasers entirely out of commission, how much ould you cut off of the \$164,000?

Admiral TAYLOR. We have already cut them out, sir; you cut out

ntirely any figure for the Eagles and subchasers.

Mr. Kelley. Why do you want the keep 12 mine sweepers in Educed commission after we have given you all those up above? Admiral TAYLOR. That was the list upon which we figured.

Mr. Kelley. That is what you had before, but they have not

sked for those this year?

Admiral TAYLOR. They were in the operating plan upon which we stimated in September.

ALLOTMENT FOR SHIPS OUT OF COMMISSION.

Mr. Kelley. How did you arrive at the \$1,000,000 for your part f the ships that are out of commission entirely?

Admiral TAYLOR. We figured that on the new list we will need 1,500,000 for the vessels out of commission.

Mr. French. Will that include those which we have just menioned as being removed from these two lists?

Admiral TAYLOR. All told, yes, sir; on the new basis. Mr. Kelley. How did you figure that?

Admiral TAYLOR. We figured the ship keepers and a certain mount of repairs and maintenance on vessels out of commission. We figured it the best we could but we have had no reliable data in he past.

Mr. Kelley. You would not expect to spend much in the way of

epairs?

Admiral TAYLOR. Yes, sir; because things are apt to go wrong at my time; they spring a leak; the drainage pipes get a hole in them; hey have to be docked every now and then; there is a certain mount of expense which we can not avoid.

Mr. Kelley. The \$1,000,000 you speak of is only for what might e needed to keep them in status quo after they have been put out of

ommission?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. It does not include anything for putting them out of

Admiral TAYLOR. We have made no separate estimate for that.

he majority of them will be put out of commission—
Mr. Kelley (interposing). During this year?
Admiral Taylor. Yes, sir; but many of them will go out of comnission with their boats and other things of that kind depleted.

Mr. Kelley. That is a good way to have them go out, is it not? Admiral TAYLOR. No, sir; they ought to have their equipage.

Mr. Kelley. I mean outside of the destroyers?

Admiral TAYLOR. They ought to have their equipage available.

Mr. Kelley. On the destroyers? Admiral TAYLOR. Yes, sir.

Mr. Kelley. But not as to all of these other ships?

Admiral TAYLOR. I was thinking more of the destroyers in that quipage matter.

Mr. Kelley. Of course this involves laying up minor ships quite a wholesale way, but we had to do something with them.

Colonel Roosevelt. That was the hypothetical proposition

65.000 men.

Mr. Kelley. The list of ships that we practically agreed up We did have some dispute about how many men it would take man them. We have not been discussing anything but the list ships agreed on.

Colonel ROOSEVELT. I have not that list before me.

COST OF MAINTENANCE OF REPAIR OF SHIPS MAINTAINED FOR BUREAU OF FISHER

Mr. FRENCH. At different places we have tried to adjust a matter of expense. In connection with these ships you are mataining at least two for the Fish Commission. The Survey vess is that for the benefit of the Navy!

Admiral Taylor. Yes. sir. She works in the West Indies.

Mr. FRENCH. The two Fish Commission ships are being maintained for the Department of Commerce!

Admiral TAYLOR. No. sir: we have them. I understand.

Mr. French. Yes: but I mean the service is being perform for the benefit of another department, not the Navy?

Colonel Roosevelt. That is right.

Admiral TAYLOR. They belong to the Commerce Department.

Mr. French. It is not fair to the Navy to have it going out of the country that an additional expense of \$250,000 or \$500,000 charged for maintaining ships, when, as a matter of fact, it is expense which ought to be charged up to an institution that ever body is saying should be maintained, and yet while it is getting cred for the results it is not receiving the charge for the expense.

Colonel ROOSEVELT. I agree with you.

Mr. French. We ought to follow that policy out.

Colonel ROOSEVELT. I think everyone must agree to that policy. Mr. French. I was trying, if possible, to split up such expens and put them where they belong. In a rough way, what would year is the expense of maintaining these two ships for your department.

Admiral Taylor. About \$10,000 for Construction and Repair.

Mr. French. That is merely for this item alone?

Admiral Taylor. Yes, sir.

Mr. French. But there would be an item probably that wor aggregate two or three hundred thousand dollars?

Admiral TAYLOR. The cost of the crew, the engineering, and

that kind of thing would be very much greater.

Colonel Roosevelt. I can not say offhand, but quite a good de I should say about \$250,000 would cover the expense of runni those ships a year.

Admiral TAYLOR. I think it would. I can answer that appro-

mately in the hearings.

Mr. French. If you will, please.

Note. -Average cost per annum, 1920 and 1921, \$172,186.82.

Mr. Kelley. You have given the expense of maintaining y bureau so far as the ships of the Navy are concerned based upon ships that the Navy Department advised you last fall would be k in commission next year. That is correct?

Admiral TAYLOR. Yes, sir. I think I have given you full informai**on** on that.

Mr. Kelley. The figures which you have given this morning were ased upon the advice you had last September as to what ships **rould** be kept in commission?

Admiral Taylor. And then my estimate had an arbitrary reducion of 20 per cent. I hope you will consider my estimate rather **ha**n the arbitrary reduction if you come to a further reduction.

Mr. Kelley. In compliance with the request to the department rom this committee, have you prepared an estimate of the cost of naintaining in commission, so far as your bureau is concerned, the hips which could be kept in commission on the basis of 65,000 men?

Admiral Taylor. There is some question what could be kept in pommission with 65,000 men. With that letter from Mr. Madden I have been furnished a list of ships upon which I have estimated.

Mr. Kelley. Did they furnish you a list of ships that they would

Admiral Taylor. They simply furnished me with a list of ships pon which to estimate. I think the question of whether they could a could not be kept in commission with 65,000 men has not been inally settled.

Mr. Kelley. Please make a statement for the record as to what

his estimate we are now talking about is based on?

Admiral TAYLOR. I have a list of the vessels furnished me under ate of March 16, 1922, in order to comply with the request of the hairman that certain information be furnished.

Mr. Kelley. Can not you state exactly what that list is based on?

That is the basis upon which your figures are computed?

Admiral TAYLOR. It is a hypothetical list, as to which, I believe, here is a difference of opinion between the Navy Department and 1e committee.

Mr. Kelley. No; we did not ask for that. We asked the departent to furnish you with a list of ships that they would keep in comussion if they did not have but 65,000 men, and requested you to Admiral TAYLOR. I have a list of the ships furnished me.

Mr. Kelley. The list which they gave you is the list they would sep in commission, as far as you know, with 65,000 men?

Admiral Taylor. It is the basis for the estimate for these hearings.

Mr. Kelley. What is that list headed?

Admiral TAYLOR. "Estimated expenditures under appropriation construction and repair, 1923," on basis of vessels in service per avy Department's list of vessels dated March 16, 1922."

Mr. Kelley. Where is the list?

Admiral Taylor. That is the list; it is not itemized by vessels.

Mr. Kelley. They did not give you the names of the ships?
Admiral Taylor. No, sir. Not final list.
Colonel Roosevelt. You will have the list of ships, that is, the

avy Department's list, in a very short time.

Mr. Kelley. Did you reduce your figures by 20 per cent?

Admiral Taylor. No, sir. We have made some reductions where **b** thought we could.

Mr. Kelley. Is it your understanding that this list is based upon personnel of 65,000 men?

Admiral Taylor. It grew out of that request, sir.

Mr. Kelley. It is your understanding that it is based on that! Admiral Taylor. I would not like to state that positively.

Colonel Roosevelt. I will answer that, Mr. Chairman—it is.

Mr. KELLEY. We can put into the heading of this table that this based upon the department's list furnished you in response to our request for a list of ships which could be kept in commission with 65.000 men?

Admiral Taylor. That is Colonel Roosevelt's statement.

Mr. Kelley. Is that agreeable?

Colonel Roosevelt. Yes; quite. The Secretary is expected to be here and submit the list.

Mr. Kelley. It will not make any material difference?

Colonel Roosevelt. There are some minor corrections that I know the Secretary made this morning, not enough to make any difference,

COMPLEMENTS OF DESTROYERS UNDER ALLOCATION BASED ON 50,000 MEN AFLOAT

Mr. Kelley. Just briefly state what this list does with the destrovers.

Admiral Taylor. Sixty-five destroyers in commission. I believe; there are a number, 50 in ordinary, and the rest out of commission.

Mr. Kelley. What do you mean by "in ordinary"?

Admiral Taylor. With a few men on board.

Mr. Kelley. The term "in ordinary" has gone out of use.

Admiral Taylor. Just a few men on board.

Mr. Kelley. Just a few caretakers. Do you not have to have

anybody on board when put out of commission?

Admiral TAYLOR. We have a ship keeper. Of course, we have people who have to inspect them constantly. We have ship keepers looking out for them. We have been trying to use enlisted men for ship keepers owing to the shortage of our appropriation. I believe we will have to pay for them out of this appropriation hereafter.

Mr. Kelley. The \$15,000 to each destroyer is for ship keepers and

watchers?

Admiral TAYLOR. No, sir; that is for the Construction and Repair expenditure in maintaining them.

Mr. Kelley. What condition would these 50 ships be in as far s

being able to be used?

Admiral Taylor. They could not be used until the crew was put on and the equipment put on and that kind of thing.

Mr. Kelley. How much better off would they be than those out

of commission entirely?

Admiral Taylor. They would be somewhat better off, because they would be better taken care of and would be more nearly ready for service.

Mr. Kelley. How many men would you have on each one of them! Admiral Taylor. I can not tell you that, Mr. Chairman, offhand.

Mr. Kelley. This is just for the upkeep?

Admiral Taylor. Yes, sir.

Mr. Kelley. There would not be enough to navigate the ships?

Admiral Taylor. No. sir.

Colonel Roosevelt. If you will pardon me, we have 50 per cent of the complement on these destroyers, which is enough to take them out just for short distances.

Mr. Kelley. They would not be in ordinary if they had a 50 per it complement?

Colonel Roosevelt. That is what I endeavored to explain, that se 50 were not in ordinary.

Mr. Kelley. It is your understanding that there will be 57 men these 50 destroyers?

Admiral TAYLOR. I do not think 57 men.

Colonel ROOSEVELT. There will be 65 destroyers and 50 with 50 cent complement, the first line destroyers. That gives an allowre of 2.850 men and then 7 per cent replacement, which would mean men on each destroyer. I think we would do much better if you uld allow me to telephone the Secretary and ask him to bring the rised list, because we are proceeding on a basis without the premises d down.

Mr. Kelley. I rather think we are in pretty good shape, having ne forward with the inquiry upon the list of ships which you aded the other day would be kept in commission if you had men ough, and then from that we can make the calculation, which is ally a matter of mathematics afterwards, but I think we want them in the record. That is all there is to your estimate for ships. nat is the rest of it? This is the original list and not the revised

PERCENTAGE OF LEAVES AND HOLIDAYS.

Admiral Taylor. We figure, in addition to that, leave and holiday penditure for which my original figure was \$1,275,000-

Mr. Kelley (interposing). What is the revised figure? Admiral Taylor. The arbitrary reduction of 20 per cent would ke that \$1,020,000. The classified force is put in at \$2,750,000, 1 80 per cent of that is \$2,200,000. In addition to that, incidental penses for navy yards, inspectors' offices, experimental and rerch work, \$400,000.

Mr. Kelley. That is the revised amount?

Admiral TAYLOR. I am giving you the reduced amount in each Expenses at yards and stations not prorated to cost of work, 440,000, and the maintenance and military stations, \$380,000, ngs the total very close to \$20,000,000.

Mr. Kelley. How many employees did you figure leave and

idays for?

Admiral Taylor. We make that a percentage of the C. and R. propriation. It runs between 7 and 8 per cent.

Mr. Kelley. So if the amount were reduced the figure would be luced accordingly?

Admiral Taylor. Yes, sir.

Mr. Kelley. Why do you figure on 7 or 8 per cent?

Admiral TAYLOR. That is about it runs.

Mr. Kelley. Based on experience?

Admiral TAYLOR. Yes, sir; based on experience. That has been ining for a number of years.

Ir. Kelley. Just for the record, what is the leave and holiday x granted?

Admiral Taylor. Annual, 30 days. The Saturday half-holiday ounts to six days during the year, and seven national holidays.

Ir. Kelley. Forty-three days altogether?

Admiral TAYLOR. Yes, sir.

Mr. Kelley. They get paid for 43 days they do not work! Admiral Taylor. Yes, sir.

CLASSIFIED FORCE.

Mr. Kelley. Are you not about ready to make a big slash in this classified force?

Admiral Taylor. That classified force covers a good deal of work not only the work at the navy yards, under the C. and R. appropriation, but it covers the classified force in connection with the increase of the Navy work. I have been trying during all the seven years I have been in the bureau to persuade you gentlemen to allow the cost of the technical work for increase of the Navy to be charged up to that appropriation, but I have never prevailed. There will be a reduction in that figure, of course, next year, but on the costrary there will be some increase in the number of vessels out of commission, and we will have to probably pay watchmen and ship keepers. I should hate to see that reduced next year below \$2,000,000.

Mr. Kelley. How much will the classified force cost this year?
Admiral Taylor. Our limit was \$3,450,000. We have not reached the limit. I think we will spend between \$2,400,000 and \$2,500,000.

Mr. Byrnes. You have cut it down to \$2,500,000?

Admiral TAYLOR. We only spent what we thought we really needed. That is not an appropriation; it is a limitation on the appropriation.

Mr. Kelley. If you are spending \$2,400,000 to \$2,500,000, with the discontinuance of the ship construction, would not your classified.

force fall much lower!

Admiral Taylor. Not, however, now, but in 1923-24. We expect that we will have a good deal of work in connection with this scrapping business.

Mr. Kelley. Will we not all be pretty well out of that by the 1st of

July if we move quickly!

Admiral TAYLOR. I think it will be a slow process, \$20,000,000 of material at least to catalogue, classify, and dispose of, although the bulk of the work will fall upon the other appropriation, we will not fall off much under C. & R., our inspectors will have a great deal of work to do as regards the work going on by the subcontractors.

Mr. Kelley. Your technical force will remain about the same! Admiral Taylor. It will remain almost the same. There will be some reduction that will come toward the end of the year, but we are not stopping building ships and we will need a technical force, and it will remain almost the same.

Mr. Kelley. Not after this coming year?

Admiral Taylor. No. sir; after this coming year we will have a reduction.

NUMBER AND SALARY OF CLASSIFIED FORCE FOR 1916 AND 1922.

Mr. Kelley. How many employees have you in this classified force!

Admiral TAYLOR. I will have to put that in the record; I have not that, sir. March 1, 1922, we had 1,315 outside the bureau and 74 in the bureau.

Mr. Kelley. And you will also put into the record the number u had on June 30, 1916? Admiral TAYLOR. Yes, sir.

Mr. KELLEY. So you will not have to look that up, I will put The number on June 30, 1916, was 835 and the total nount of compensation, the amount actually expended, was 78,601.87. Is it considerably more than that now?

Admiral TAYLOR. It has been increasing.

Mr. Kelley. How much about?

Admiral Taylor. It varies, but I should think the average increase s over 50 per cent.

Mr. Kelley. And the number has increased about what per cent—

u had 800 and some odd men then?

Admiral TAYLOR. The number has increased over 50 per cent also, t I can say, as regards the technical force of the bureau, that we ve fewer people than we had in 1916; we have already reduced

Mr. Kelley. You would not like to see that go below \$2,000,000

this purpose? Admiral TAYLOR. No, sir. That is a limitation, Mr. Chairman; s not an appropriation.

Mr. KELLEY. I know it.

Admiral TAYLOR. We would not employ men that we did not need, d we cut them down as fast as we can. We will carry out that licy.

EXPERIMENTAL AND RESEARCH WORK.

Mr. Kelley. For incidental expenses you have \$400,000. What

those expenses?

Admiral TAYLOR. That is for the Title V experimental and rerch work. That is for the navy yards and inspectors' offices, and s principally for the pay of men.

Mr. KELLEY. What is the money used for?

Admiral TAYLOR. It goes for miscellaneous material, stationery, ice appliances for the navy yards and inspectors' offices, and scellaneous charges from time to time which can not be located ainst specific ships or any other title accounts.

Mr. Kelley. Have you got it distributed in a little more detail? Admiral Taylor. Not in detail; no, sir.

Mr. Kelley. Would it be much trouble to segregate that expense der three or four heads and give the details?

Admiral TAYLOR. We could do that by searching through our

ords.

Mr. Brunner. Those expense returns are not reported separately. Admiral TAYLOR. They are reported under Title V, and it is a le difficult to separate them. Title V includes something like 40 50 heads of expense.

Mr. Kelley. Can you give the amount expended for experimental

poses?

Idmiral TAYLOR. I think so.

Ar. KELLEY. How much is that? Is this laboratory you are to

n up next year included in it?

dmiral TAYLOR. No, sir. This includes the model basin at the shington yard, and the work we do there in connection with

aviation experiments. It includes expenditures in connection wi gas masks and gas-protection appliances and methods of all kin It also covers the investigation that we are making in order to redu oil consumption. My friend, Admiral Robison, is investigating t question reducing fuel consumption on ships, and we are trying help by reducing fouling, which adds to fuel used. We are constant testing new and improved materials at navy yards. We have ea year to make tests of tool steel submitted, and awards are made up the basis of the actual tests. A large number of minor items included in it, but the major items are the model basin work and t wind tunnel at the Washington yard.

Mr. Kelley. Does that represent a considerable part of this su Admiral Kelley. It is an appreciable part of it, or between it

and one hundred thousand dollars.

Mr. Kelley. Nothing is included in this item for the laborate

you are to open next year?

Admiral TAYLOR. Not in this figure. This is work that we ha been doing.

Mr. Kelley. Whose traveling expenses are paid out of it?

Admiral TAYLOR. None; so far as I know.

Mr. Kelley. I thought something was said about the travel expenses of inspectors under this item?

Admiral Taylor. No, sir.

Mr. Kelley. What is the rest of it expended for, outside of exp mental work ?

Admiral Taylor. It is for experimental and research work.

Mr. Kelley. The whole \$400,000?

Admiral Taylor. Yes, sir.

Mr. Kelley. What did you mean by your statement in regard

paying the traveling expenses of inspectors out of this fund?

Admiral TAYLOR. That was another fund. You were speaking the previous item. There is no travel at all under this item. there is no reason for any.

Mr. Kelley. This item does not include traveling expenses?

Admiral Taylor. No, sir.

Mr. Kelley. Does the previous item include traveling expense Admiral TAYLOR. No, sir; that covers the expense of the pay the men.

YARDS AND STATIONS.

Mr. Kelley. For yards and stations, you have \$1,440,000? Admiral Taylor. That is Title G, and the estimated expendit is based upon previous experience.

Mr. Kelley. How much of that is for new tools?

Admiral Taylor. None of it, except for minor hand tools maintenance.

Mr. Kelley. Can you give the details of that?
Admiral Taylor. I can not give you the details. That is a of an item of about \$7,000,000 that is charged up to Title G et year, and we have segregated from that what we regard as expe directly chargeable to this appropriation. The rest of Title G | into the cost of work under indirect.

Mr. Kelley. This is a variable sum, depending upon the stat

Admiral TAYLOR. It is a variable sum, but it has been reduced. East year that fund amounted to \$2,623,000 at the ten working yards, and it has been cut about one-half.

* Mr. Kelley. How do you determine whether you shall pay any **L** those charges, or not?

Admiral TAYLOR. As a matter of practice, that is determined

ander the accounting instructions by the local people. Mr. Kelley. They have to follow the instructions of the Navy

Department in that regard?

Admiral Taylor. They follow the accounting instructions. Probably you have been told that we are revising our accounting system, and when that is done these matters can be determined much more **nec**curately. I would like to say in that connection that a large part of that money that is charged against our appropriation is for indeterminate expenses. For instance, you have been told, I think, that all power could legitimately be paid for from the Yards and Docks appropriation, and technically, under the law, that is true, but, as a matter of fact, when power is used in a shop, the charge should be made to the shop and distributed to the jobs in the shop under the appropriation named. Technically, under the wording of the old act, it might all be charged to the Yards and Docks appropriation, and Yards and Docks would then be paying for work carried on in the shop. However, that was not intended, and the nstructions are to have a line of demarcation by which Yards and Docks appropriations are used to maintain the grounds and to provide electricity for lighting the yards, but they should not pay and at the present time they do not pay for power used in the shops.

Mr. Kelley. Do you ever pay for power used on the grounds? Admiral Taylor. Not except by indirection through indeterminate. The difficulty has been that the inderterminate charges have been entirely too large and a revision of the accounting will straighthen that out, and will make sure, for instance, that the expense of lighting the grounds will be paid from Yards and Docks

appropriations.

Mr. Kelley. How much will this amount to in your appropria-

tion this year?

Admiral Taylor. There is no separation of the expenditures here. The expenditure last year was \$2,623,000.

Mr. Kelley. Will the fact that you will have so many destroyers

laid up affect this item?

Admiral TAYLOR. Not very much, and only as the total expenditures at the yard are affected. That item will not fall off proportionately, however, with the total expenditures, but it will be somewhat in proportion. There is an irreducible minimum at which we

Mr. Kelley. How much did you spend in the Yards and Docks

last year when this item was \$2,623,000?

Admiral Taylor. Our appropriation then was \$31,000,000.

Mr. Kelley. So that this, perhaps, would be something in the

same proportion?

Admiral Taylor. That figure of \$1,440,000 taken from a \$20,-900,000 appropriation would be in somewhat less proportion. We have cut it almost in half.

Mr. Kelley. We have already taken off a little bit this morni Admiral Taylor. I have observed that; but I hope you will b in mind that there is a constant expenditure under this item, eve we got no appropriation for those other things. You do not st at zero, but must start some little distance up the scale.

MAINTENANCE OF MACHINERY.

Mr. Kelley. You have \$380,000 for maintenance. What is t for?

Admiral Taylor. Maintenance of machinery. That is mainly floating property that we have stationed all over the world. Un this item we separate industrial stations from military stations. instance, Annapolis is a military station, and we have a large num of boats down there which have to be maintained. Then we have floating equipment at the training stations.

Mr. Kelley. This is your share of the maintenance that st

where your property is located?
Admiral Taylor. Yes, sir. Last year our expense for that something over \$1,000,000.

FOR MAKING INVENTORY OF SUPPLIES AND MATERIAL.

Mr. Kelley. Going back to this classified force, you say that th will be a need this coming year for a number of people to han the material that you have on hand.

Admiral Taylor. A greater number; yes, sir.

Mr. Kelley. What is the nature of that material?

Admiral TAYLOR. The material includes everything that goes a ship, and there is hardly anything that does not go on a ship, fr bricks to diamonds.

Mr. Kelley. Was it designed to go on vessels that are not to finished?

Admiral Taylor. What we are doing now is to undertake inventory of that material not only at the shipyards but at the su contractors' works. As you know, we have stopped all construction ships to be scrapped. Some of the material is partly complete and a part of it is at the shipyards. It is the purpose to make inventory and classify it and determine what is of no worth, wh could be used, and what should be scrapped. We must pass up that material and find out just what part of it can be used for shi that are to be retained. Some of the material can be used for t ships that we will finish, including the aircraft carriers. Some of is standard material, and the standard material can be sent to the yards to be used for replenishment and replacements.

Mr. Kelley. That will make some difference in your appropri

tion for the coming year, will it not?

Admiral TAYLOR. No, sir; because it will probably take sever years to work that material off.

SUPPLIES AND MATERIAL ON HAND.

Mr. Kelley. You will have on hand a great stock of supplies a repair material, will you not?

Admiral TAYLOR. We do not know yet what we will have.

Mr. Kelley. There will be a lot of material that you can use for

repairs and other purposes at the yards?
Admiral TAYLOR. We do not know what we will have, but there will be no large stocks of such things as you refer to. We will have things like fans, for instance, but our present thought is that we will probably have to sell off that stuff at whatever price it will bring. As regards C. and R. stuff, it may be that it is not of the same model-

Mr. Kelley (interposing). Do you not have a lot of copper pipe

of the kind that you need so much of in the repair of ships?

Admiral Taylor. We will have a great deal of copper pipe, but we already have a great deal of copper pipe, and iron pipe also. You object to our accumulating a large stock of that material.

Mr. Kelley. You will have this stuff on hand which will come to

you under the present arrangement. Now, when you take this stuff over, do you mean to take it over at the price you paid for it, or at the scrap price, or at the price you can get for it?

Admiral TAYLOR. That has not been settled yet, but I presume it will be fair to take it over at the price for which it could be sold. Of course straight pipe is worth practically what we gave for it, but pipe that is already bent, of which there will be a good deal scattered

around the yards, will not be worth anything.

Mr. Kelley. If you take all of this material that you have on hand for the construction of ships and fix a sale price on it—and that is probably what you would do-and then use it at that price, it would make quite a difference, would it not, in the sum you are asking for repairs?

Admiral Taylor. I do not believe so. Of course we have not gone far enough to say definitely, but I am of the opinion that it would not make any great difference, so far as my work is concerned.

Mr. Byrnes. If you should make the price low enough, you might

buv a lot of it.

Admiral TAYLOR. The question is whether we could use the

naterial the first year or not.

Mr. Byrnes. The presumption was that it was material that could

Admiral Taylor. The question is whether we could use much of the first year. For instance, taking the greater part of the material, lates to be incorporated in the ships, all that we could do with them **would** be to cut them up. When a plate has been fabricated and is eady to go on the ship, ordinarily it can not be used at any other There is not an enormous accumulation of such stuff at the ards, because we order plating as we expect to use it.

Mr. KELLEY. What are the chief items of material that you could

e in making repairs?

Admiral Taylor. Wood, plates, and shapes.

Mr. Kelley. You have a large amount of lumber on hand, have rou not?

Admiral TAYLOR. No, sir; we have not reached the state where

mber was required in large quantities.

Mr. Byrnes. However, the lumber at the yards could be used for

Admiral Taylor. Some of it could be. We had large contracts for teak, which is the most expensive wood used on ships. large contracts for West Indies teak, but they were canceled.

Mr. Kelley. What else is there?

Admiral Taylor. Plates and shapes constitute by weight the greater part of it.

Mr. Kelley. These shapes must be made to fit the ships?

Admiral Taylor. They are ordered that way. Every bit d plating that goes into a ship is ordered for that ship from plans showing the location and dimensions of the plates. Every part of that material, except for spares, which are ordered at random for every ship, is ordered for the particular ship, and the order indicates the rough dimensions of the place it is to fit.

Mr. Kelley. Give the rest of the large items.

Admiral Taylor. It includes piping.

Mr. Kelley. That will be an item which you can use pretty

extensively?

Admiral TAYLOR. Piping is always good, but I do not know that we have any large accumulation of that. We have, for instance, auxiliary machinery, and that is a very extensive item, including steering gears, windlasses, etc., but we can not use them except on the ships for which they were designed.

Mr. Kelley. Could you not use the steering gears?

Admiral Taylor. No, sir.

Mr. Kelley. Nor the windlasses? Admiral Taylor. We might be able to build a ship around a windlass, but we would have no use for those appliances, except as we can use them for the aircraft carriers.

Mr. Kelley. What other material will there be?

Admiral Taylor. Then, we have paint, which is a very important item.

Mr. Kelley. There would be no trouble about that.

Admiral TAYLOR. There would be no trouble about that if we had quantities of paint at each place where a ship is building, but none the ships except the Washington has reached a stage where mu paint was being used on them. So far they have used mainly red leader. Kelley. You mean that you have not much on hand?

AdmiraTaylor. I believe they will not have much on han They have contracts, but probably not much has been delivered The principal paint used during construction is for preservation, and that is red lead.

Mr. Kelley. Have you no work on which you could use that! Admiral TAYLOR. We could use some of it, but paint is a could mercial article, and we do not carry a very large stock of it as a rel It deteriorates in storage.

Mr. Kelley. What else is there? Are there any boats?

Admiral Taylor. The boats are not on any of those vessels exce a few.

Mr. Kelley. Will there be boats enough to replace any that mi

be required during the coming year?

Admiral TAYLOR. No, sir. Those boats are built by the Gove ment, and we could not get them for nothing. The contractor de not supply them.

Mr. Kelley. You would have to take them at cost?

Admiral Taylor. We supply the boats, and I am afraid that the sureau of Supplies and Accounts would not allow us to draw them ut except at full price. We have never been able to procure anyhing under Supplies and Accounts except at full price.

Mr. Kelley. What other material have you on hand?

Admiral TAYLOR. There are anchors and chains, but there will be ery little scrapping in connection with them. They would be used or replacements and on the aircraft carriers. There will be items rhich would be in a completed ship, such as linoleum, and we have heet metal. We will probably be able to use the sheet metal, sore or less, as a standard supply. The large fans are generally esigned to suit a particular ship. Although some of the smaller izes are available for general use, the larger sizes are not adapted o anything except the particular ships for which they were designed.

Mr. Kelley. Is the ship program that is to be completed mostly

nder private contract?

Admiral TAYLOR. Yes, sir. The scrapping will be mostly of ships a the yards. Six out of 11 of the big ships to be scrapped are in be yards.

Mr. Kelley. So that the yards next year will go back practically

b the status of repair yards?

Admiral Taylor. Yes, sir; except that there are a few auxiliaries hat we are building.

COMPARISON OF TONNAGE FOR 1916 AND 1923 TO BE MAINTAINED.

Mr. Kelley. Then, we can come pretty close to the 1916 cost, y adjusting wages and the increased number of ships, whatever

Admiral Taylor. No, sir; I do not think so. There is no pros-

bct that wages will be reduced much.

Mr. Kelley. I said after making the proper adjustment for wages and for any additional ships, you could go back to the 1916 figure.

Admiral Taylor. Wages are still 661 per cent above the 1916

rure in the yards. If you take my appropriation of \$10,000,000 1916, roughly, I should say, 60 per cent of it would be wages. hat would make it \$14,000,000 now on account of the increased ages, and you should consider that the Navy is more than double e size of the Navy in 1916.

Mr. Kelley. Thirteen of the 18 battleships would be the same. Admiral Taylor. But the total displacement involved is very

Mr. Kelley. I am talking about ships that you will have to repair,

d not the total tonnage of the Navy.

Admiral TAYLOR. There is not a ton in the Navy that does not

boner or later involve some expenditure under C. and R.

Mr. Kelley. Let us take the 13 battleships you had in 1916: bu have 18 now instead of 13, and you had a predreadnaught fleet 1916 of 10 or 15 vessels. You had more battleships in commission 1916 than you have now.

Admiral Taylor. Yes, sir; but they were much smaller vessels. Mr. Kelley. Not so much smaller, because 13 of them were the

ne ones that we have now.

Admiral Taylor. The last five added almost an equal amount of splacement.

Mr. Kelley. But all of those prior to the *Delaware*, including the *South Carolina* and *Michigan*, and all of the predreadnaughts, will be out of commission.

Admiral Taylor. Yes, sir; they will be scrapped.

Mr. Kelley. So that your battleship situation is not much heavier now than then.

Admiral Taylor. Next year there will be some additional scrapping—

Mr. Kelley (interposing). We will take care of the scrapping bill in a separate appropriation. We want to draw a line on the 1st of February, right straight across, and everything that has to do with scrapping ships, or with the taking off of material on the ships that will be scrapped, will be charged back into a scrapping fund.

Admiral Taylor. Including the completed battleships that will

be scrapped?

Mr. Kelley. Yes. Does what I have been asking about make any

difference in that figure?

Admiral TAYLOR. As regards the scrapping, our part of the expenditure would be small.

Mr. Kelley. Your figures do not include anything that could be

taken out on account of the scrapping?

Admiral TAYLOR. As regards the use of that material, I have not figured on it, but I do not believe it would relieve my appropriation for next year \$100,000. I think \$100,000 would be a liberal estimate.

Mr. BYRNES. What about the necessity for the transportation of that material to the yards where you are engaged in repair work on ships, or would there be much transportation cost?

Admiral TAYLOR. There will be a great deal of transportation involved. We are trying to sell as much as possible of it where it

lies.

Mr. Byrnes. I suppose there are instances where it would be more economical to sell than to pay the freight on the material?

Admiral TAYLOR. The instructions we are drafting contemplate the sale at once of the small material which will cost more to catalogue and classify than it is worth. It is only the material that has a good value that should be stored.

Mr. Kelley. Would not you and Admiral Robison cover pretty nearly everything that is charged up to the maintenance of the

navy yards!

Admiral TAYLOR. We would cover the major part of it.

Mr. Kelley. A very definite line could be drawn. You an Admiral Robison practically run these navy yards, do you not?

Admiral TAYLOR. We spend most of the money in the navy yards, Mr. Kelley. If you two paid all the bills of the navy yards, at left Yards and Docks simply to provide for the military yards whethere is no industry going on, you would get this maintenance proposition right down into practically one spot in the Navy Department Admiral Taylor. Then we would be accused of using more

Admiral TAYLOR. Then we would be accused of using most appropriated for the purpose of building ships in keeping up to yard, and we would be in the same condition we were in years per same condition.

Mr. Kelley. That is what we are doing now; there is \$1,440,4 right here to keep up the yards.

Admiral TAYLOR. But that is our own plant and it is stuff which we should keep up; it may be used indirectly in some cases, but it should not be used to maintain roads, walks, and things of that kind which have little or nothing to do with the industrial part of the yard. Our appropriations should be spent entirely for the industrial part.

Mr. Kelley. I should think a road over which you haul your stuff

to a shop is as essential as a crane or anything else.

Now, Admiral, in view of the reorganization of your accounting system, should the Secretary of the Navy have authority to consolidate or transfer funds from the appropriations made for the Bureau of Yards and Docks, Ordnance, Engineering, and Construction and Repair to properly carry out the provisions of your new system?

Admiral TAYLOR. There is already authority of law to do that. would rather have the Secretary answer that, but my recommendation

would be that I would make no change this year.

Mr. Kelley. You do not want this section repealed this year?

Admiral Taylor. Is that the act of 1914?

Mr. Kelley. Yes-

reafter there shall be charged against the several appropriations for the support of the Naval Establishment the overhead charges incident to upkeep and to industrial work at navy yards and stations. The total sum so charged shall be distributed in accordance with the work done in the various yards and stations in order that the cost withe work may be determined.

Admiral Taylor. I think that should remain, Mr. Chairman.

Mr. Kelley. That is what gives him authority to transfer these funds from one place to another?

Admiral TAYLOR. Yes, sir.

Mr. Byrnes. How much have you on hand to-day?

Admiral Taylor. We have something under \$6,000,000, or, rather rill have the 1st of April.

Mr. Kelley. You mean in this fund?

Admiral Taylor. In C. and R. We were very much alarmed on he 1st of January when we cut down by 25 per cent the allotments Boat, and I had cut down the allotments to the yards because we rere running behind, but the people afloat are showing economies now md we will pull through without a deficiency unless we wreck two or **bree** ships.

Mr. Byrnes. You will pull through to the end of the year?

Admiral TAYLOR. Yes, sir.

Mr. Byrnes. Do you expect to spend the \$6,000,000? Admiral Taylor. I expect to spend all but a reasonable balance; saved \$300,000 last year but had to come for a deficiency, but I hope re will save enough this year to avoid a deficiency. As you know, have certain expenditures to make after the close of the fiscal year, these appropriations extend over a period of two years, and we will pobably need to save \$300,000 or, perhaps, a little more to cover all e payments.

Mr. Kelley. How do you keep track of the repairs on shipboard,

do you not have many repairs made on the ships?

Admiral Taylor. Yes; we have a great many repairs made on the

Mr. Kelley. Do do you keep track of the total?

Admiral Taylor. We have returns made; we get the information from Supplies and Accounts and we keep an account with each ship as to the C. and R. expenditures.

Mr. Kelley. How far behind are you? Admiral Taylor. We are not behind.

Mr. Kelley. I mean on information as to what they have spent Admiral Taylor. The reports are in for January.

Mr. Kelley. So you are about three months behind?

Admiral TAYLOR. About that.

Mr. Kelley. Is there not some way by which you could keep a little closer track of the expenditures being made on shipboard for repairs?

Admiral Taylor. Are you speaking of the allotments to the ships

themselves or repairs at the yards?

Mr. Kelley. I remember what you said when you came for a deficiency.

Admiral Taylor. We are getting closer all the time.

Mr. Kelley. Of this \$20,000,000 that you estimated for before you made your reductions and then before we made further reductions—

Admiral Taylor (interposing). The \$20,000,000 was after the 20 per cent reduction. I wish you would start with the original figure. Mr. Kelley. What part of that is labor and what part material.

Admiral TAYLOR. Roughly about 55 per cent, our experience shows. It varies between 50 and 60 per cent, but the major part is labor.

Mr. Kelley. If our suspicions are borne out in practice, that you will find quite a large amount of material which you can get pretty cheaply as a result of this scrapping, you could make quite considerable economies.

Admiral Taylor. That is a pure hypothesis which we will not find Mr. Kelley. I say, if our suspicions should hold out.

Admiral Taylor. Yes.

Mr. Kelley. Of course, that is not a very trustworthy basis, but I am wondering whether you have really thought of the possibilities with all these ships being scrapped and the material sold at a scrap price and you being able to avail yourself of it to the extent that the material was useful.

Admiral TAYLOR. As you put it I can only answer yes, because there is no other answer possible, but it is a theory and not a condition.

DETAILS CONCERNING BROOM INCIDENT.

Mr. Byrnes. Admiral, you have informally mentioned brooms Do you place the orders for brooms?

Admiral TAYLOR. No, sir; they are placed by the Bureau of Sup

lies and Accounts.

Mr. Byrnes. What did you have to do with the ordering of brooms. Admiral TAYLOR. You are referring to the broom incident?

Mr. Byrnes. You mentioned brooms, and I wondered whether

you had anythin to do with the ordering of brooms? Imiral Tayl. Yes, sir; we handle brooms.

Bi d you place an order for brown you by the War l

did not

and then when nothing relus d exactly with

Admiral TAYLOR. No, sir. We advertised for a number of brooms ast fall and we were offered War Department brooms at 70 cents. Dur bids were 38 cents and a fraction, and I recommended that we lace the award with the New York Institution for the Blind, the eople who made the bid, and the Bureau of Supplies and Accounts laced the award accordingly.

Mr. Byrnes. Were those brooms surplus brooms in the War

Department?

Admiral Taylor. Not as it came to us. They were offered to us **t** 70 cents.

Mr. Byrnes. When an order is placed would it come to your Dureau and then go to all the other bureaus in order to ascertain whether that material is on hand?

Admiral Taylor. No, sir. In this instance we originated the

equisition and it was referred to the Army storekeeper in New York, believe, who reported that he had these brooms available at a price, out I am very positive in my recollection that they were not surplus out that we would have to pay 70 cents for them.

Mr. Byrnes. Did that come to you in the shape of a memorandum? Admiral Taylor. No, sir; but the bids came to me. All of our equisitions for material are sent to the Bureau of the Budget to see vhether the material can be supplied from any other source, and that s the way the requisition was handled in this case.

Mr. Byrnes. From what source did you get information that you

vould have to pay 70 cents for them?

Admiral TAYLOR. Our schedule was referred to the Army quarter-

naster in New York, who said he had these brooms in stock.

Mr. Byrnes. What I want to know is whether you have any memrandum in which it appears that you were asked to pay 70 cents or ny other price for those brooms instead of being offered the brooms or nothing, and if you have such a memorandum I want you to put t in the record.

Admiral Taylor. My information is that these were offered to us t 70 cents and I have no recollection and I am quite sure that othing ever came to me showing that they would be supplied for

Mr. Byrnes. What, if anything, came to you indicating that you

rould have to pay 70 cents?

Admiral Taylor. It was a memorandum from the storekeeper n New York.

Mr. Byrnes. I wish you would put that memorandum in the re-

Admiral TAYLOR. That is probably in the Bureau of Supplies and accounts, but I can get it; it was simply an indorsement on some aper saying that these brooms were in stock and available at that rice.

> WAR DEPARTMENT, GENERAL SUPPLY DEPOT, QUARTERMASTER CORPS, New York, November 29, 1921.

rom: Quartermaster Supply Officer.
o: Coordinator, General Supply, Second Corps Area, 45 Broadway, N. Y. ubject: Supplies required by the Navy.

1. Receipt is acknowledged of your communication of November 25, 1921, transitting to this depot Navy supply schedules.

2. Schedule No. 9047 has been withdrawn and is returned herewith with the information that the 18,000 corn brooms called for can be furnished from stocks on hand at this depot at a price of 70 cents each.

 The remaining schedules have been transmitted to the surplus property division for advice as to the articles which can be furnished from the stocks under their jurished.

diction.

GEO. E. PRUITI.

Mr. Kelley. Admiral, we are very much obliged to you.

FRIDAY, MARCH 17, 1922.

BUREAU OF ORDNANCE.

STATEMENTS OF REAR ADMIRAL CHARLES B. McVAY, JR.; CAPT. F. L. PINNEY, ASSISTANT; AND MR. FRANK S. RAY.

ORDNANCE AND ORDNANCE STORES.

Mr. Kelley. We have with us this morning Admiral McVay, Chief of the Bureau of Ordinance, and we will be glad to have the Admiral make any general statement relative to his bureau that he may desire to make before we take up the items in detail.

Admiral McVay. Up to 1920 there were several appropriations under the different names which the committee decided to place directly under ordnance and ordnance stores. The estimate revised, taking into account the probable cost of material and labor, and including all of the items which used to be included and which were not prior to 1920 included in this appropriation but now are, is less

than any estimate submitted since 1909.

The bureau is pleased to be able to inform the committee that the appropriations made for the fiscal year 1922 were ample and, due to the establishment of the five-day working week, together with the reduction in labor and material, it will be able to carry on its work satisfactorily for the remainder of the fiscal year with a probability of being able to return to the Treasury an unexpended balance of between \$500,000 and \$1,000,000, depending upon whether or not unusual conditions and sudden emergencies arise during the next The estimates as submitted last July for the fiscal four months. year 1923 were based upon the wage scale in effect at that time but took account of a probable reduction in material costs. The net result of the reduced wage scale has been a reduction of approximately 12½ per cent in labor costs at navy yards and stations, so that the bureau is now able to recommend a reduction in the estimates under the appropriation "Ordnance and ordnance stores" for the fiscal year 1923 from \$13,130,000 to \$12,000,000. If and when the naval treaty is ratified, and suitable legislation is enacted authorizing the stoppage of work on vessels to be scrapped, this estimate may further be reduced to \$10,700,000, which the bureau believes will be sufficient for its purposes. Since this was written there has been a reduction in enlisted personnel at our stations and that will necessitate certain activities being carried on by civilian labor, such as running boats at the torpedo station and on the range.

I do not propose to make any change in my estimates on that count, because if I find it necessary to st p activities to come withthis, I propose to do it.

DETAILS OF ESTIMATE.

Mr. Kelley. Last year, Admiral, you furnished us with the details this appropriation. Have you a copy again this year? Admiral McVAY. Yes, sir.

The CHAIRMAN. You suggest that if the treaties are finally executed u can reduce the \$12,000,000 estimate to \$10,700,000 for next year. you assume that they have been executed now, and you enter upon ourse of activities based upon that assumption to-day, or as of the of March, say, how much would you be able to add to the 00.000 which you say you will have as a surplus for this fiscal year? Admiral McVAY. That is included in that, Mr. Madden. We are uring on stopping a certain amount of the activities now, but the gest saving would not show for the rest of the year because the eat part of it is a reduction in the inspection force and field force, nich I have cut off from \$1,900,000 to \$1,000,000, so there is a 00,000 saving right there. Of course, our people are all engaged w in making these inventories and will be required to come to ashington before the board that settles the contracts.

The CHAIRMAN. So you will really not be able to reduce as much

you otherwise might?

Admiral McVAY. Not during the balance of the year; and also, I n taking a chance in this estimate and assuming that we are going be able to settle this thing by the 1st of July, and I hope if we do ot do it and I come to you and say this will not do, that it will be iderstood, because I am figuring optimistically.

Mr. Kelley. Your fear that it might not be settled by the 1st of ily involves any delay in executing the treaty and authorizations

om the President to enter into negotiations?

Admiral McVay. That is something, of course, I do not know ything about, but I am assuming we will have the thing cleared by the 1st of July and that I can make reductions accordingly.

RELINING OF GUNS.

Mr. Kelley. You may now go ahead with your analysis. Admiral McVAY. The amount for relining guns is \$800,000, and is is for relining the guns of four battleships of the first line, five ns which were worn in the railway battery abroad and are required r replacements, and the two spares which are worn and must be In this relining of guns, in the original appropriation, 25 r cent of the spare guns is provided, and with these spares, where

ar ships are built, they are one complete set of guns for a vessel of at class.

Mr. Kelley. What will you do with the guns on ships to be apped like the Michigan and the South Carolina?

Admiral McVAY. We will render those guns inoperative by burning

d selling them as scrap.

Mr. Kelley. Under the treaty you are not permitted to use any the guns on the scrapped ships to replace guns on any ships you are rmitted to keep?

Admiral McVay. We are not permitted to substitute larger calibers.

Mr. Kelley. How many railway guns have you? Admiral McVay. Five. They are the guns which were used abroad and worn so that they have to be relined.

Mr. Kelley. Do you have them relined at your expense or at the expense of the Coast Artillery!

Admiral McVay. At our expense, because we keep the guns.

Mr. Kelley. I thought you turned these guns over to the Coast

Artillery.

Admiral McVay. We did turn over a certain number of the railway mounts but not all of the guns; we had to keep some of the guns because they had been taken from the replacements for use in the war, and now we have to fix them up for substitution on other ships.

Mr. Kelley. Those guns must have been guns that you took off

of the predreadnoughts!

Admiral McVay. No: they were the 14-inch, 0.50-caliber guns.

Mr. Kelley. You took them out of your reserve stock!

Admiral McVay. Yes, sir; and sent them right over; that is the only way we could do it.

Mr. Kelley. They were in reserve for these particular ships you

have named?

Admiral McVAY. Yes, sir.

Mr. Kelley. And now they have to be relined in order to restore the normal reserve of guns for those ships?

Admiral McVay. Yes, sir.

Mr. Kelley. What is the amount?

Admiral McVAY. The total amount for all the relining is \$800,000.

Mr. Kelley. How much for these five guns? Admiral McVAY. \$35,500 out of the \$800,000.

Mr. Kelley. What is the balance of the \$800,000 for?

Admiral McVay. The Texas has 10 guns and they have to be straightened.

Mr. Kelley. Because they drop at the ends? Admiral McVay. Yes, sir.

Mr. Kelley. What is the technical name for that?

Admiral McVAY. They have an excessive droop. We have to straighten them, reline them and put an extra hoop on them to prevent this drooping.

Mr. Kelley. Then you have to take all of the guns off of the ship

for that purpose?

Admiral McVAY. Yes, sir.

Mr. Kelley. How many are there?

Admiral McVay. Ten. They will cost \$38,000 apiece, or \$380,000. Mr. Kelley. It will cost that to take the droop out of the guns on the Texas?

Admiral McVAY. To take the droop out, reline them, and put on an additional hoop; by doing that we find we can stiffen them; it is a good deal like putting an extra truss in a building.

Mr. Kelley. All that work will be done at the Washington yard Admiral McVay. No, sir; we expect to do quite a bit of this under contract, and that is particularly necessary we have to straighten the guns, because we have no big

Mr. Kelley. What is the rest of the \$800,0

Admiral McVay. The Oklahoma has ten 14-inch .45-caliber guns to straightened, relined, and hooped. We figure that will cost 46.500.

Mr. French. Is that a common thing, for a droop to occur in

Admiral McVay. All guns have a certain amount of droop, and that particularly so with guns that were built several years ago; since en we have taken measures to correct it in later designs.

Mr. French. Are you correcting it? Admiral McVay. Yes, sir.

Mr. French. Where it has occurred was it the fault of the con-

Admiral McVay. No, sir; it was a question of design and unforeen action; it was not faulty design; it was an up-to-date design, t this drooping could not be anticipated.

Mr. French. It was an up-to-date design for the time the design

as made?

Admiral McVay. Yes, sir; and after using the guns quite a while is droop appeared, and then we had to take steps to correct it.

Mr. French. I suppose the heat from the firing would help in

using this drooping, would it? Admiral McVay. That would in a measure, but it is really a queson of weight and firing, and the droop has required what I would ll an additional trues; the guns are perfectly good and fire all right, t every time we reline a gun we do not want the additional expense having to straighten it.

Mr. Kelley. What is the rest of the \$800,000 for?

Admiral McVay. For twelve 12-inch 0.50 caliber guns on the yoming, \$102,800.

Mr. Kelley. What is the matter with the guns on the Wyoming? Admiral McVAY. They need relining and hooping.

Mr. Kelley. Have you quite a stock of linings?
Admiral McVay. On the Wyoming we have the liners, but on the exas we have not; the amount required to complete the liners on e Oklahoma is \$4,500 for each one; on the Pennsylvania there will \$12,260 for that particular item; for the railway battery and the ires we have the liners on hand. In other words, wherever we 🔁 material on hand we use it.

Ir. Kelley. All of the guns of the new types which are on the so to be scrapped are 16-inch guns, are they not?

Imiral McVAY. Yes, sir.

T. Kelley. So those linings would not do, and you would expect ep on hand a certain number for the 16-inch ships you are going **■**nish?

miral McVay. Yes, sir.

Kelley. You spoke of some 12-inch guns. Imiral McVay. They are on the Wyoming.

* Kelley. And you probably have a good many 12-inch linings. Imiral McVAY. We have those on hand for this particular ship there will be no cost for that.

r. Kelley. It is mostly labor cost in the case of all these except

Texas.

In dmiral McVAY. Well, it is practically all labor for the Wyoming, railway batteries and the spare guns.

Mr. Kelley. How much for the Pennsylvania?

Admiral McVAY. We have to get six liners for her out of the 12 guns.

Mr. Kelley. How much was the total amount for her?

Admiral McVAY. \$175,560. We work on a regular schedule from year to year and this is planned well in advance; we watch the firing of the ships in target practice and regulate it.

Mr. Kelley. This is the regular overhaul work with respect to the

guns on these four ships?

Admiral McVay. Yes, sir.

Mr. Kelley. And then next year there will be some other four ships?

Admiral McVay. Yes, sir.

Mr. Kelley. In order to keep them all in good condition? Admiral McVay. Keeping them ready to join the battle line.

Mr. Kelley. Are there any other ships?

Admiral McVAY. No, sir; that is all.

Mr. Kelley. That practically covers the relining item of \$800.000! Admiral McVay. Yes, sir. The overhaul and repair work on major caliber guns, \$100.000, is a routine overhaul, wherever things come up, and that is about the average.

Mr. Kelley. Does that refer to the major guns or all guns?

Admiral McVAY. All guns.

Mr. Kelley. It is not for overhaul and repair on the particular guns we have under consideration?

Admiral McVay. No.

Mr. Kelley. But any overhaul and repair of the major caliber

guns on any of the ships?

Admiral McVay. Yes, sir. The amount for the overhaul and repair work on turret equipment is \$300,000. The original estimate submitted by the officer in charge of the section for this work was \$1,265,905 for relining guns, which is cut to \$800,000.

Mr. Kelley. I presume the original estimate included the guns on

the ships you are going to scrap!

Admiral McVay. No. sir.

Mr. Kelley. Just of the dreadnought type?

Admiral McVAY. Yes, sir.

Mr. Kelley. You have cut that to \$800,000?

Admiral McVay. Yes, to \$800,000 from \$1,265,905; I cut it \$465,905, and that is for relining the guns.

Mr. Kelley. You were able to do that by reason of the large

number of linings you have on hand, or what?

Admiral McVAY. No, sir; by the schedule: I took the schedule and decided that I had better not do so much this next year.

Mr. Kelley. That is fine, and yet you are keeping up with your

normal schedule.

Admiral McVAY. Yes, sir. This \$100,000 item as originally sub-

mitted was \$1,111,400.

There is an itemized list of the work to be done under that. I thought that we could not afford to do that next year and I cut it to \$100,000.

Mr. Davis. Admiral, I am not familiar with some of these matters, and I think, perhaps, there are many Congressmen who do not understand them. Please explain for the record what you mean by reg a gun, and also what is the occasion. What causes the gun

e in such shape that it needs to be relined?

lmiral McVay. Yes, sir. Originally we built the guns with a tube. Every time you fire a gun there is a certain amount of which we call erosion, which varies with different classes of , so that soon the gun is in such condition that it could not fire number of rounds carried aboard the ship. Those rounds deled upon the life of the gun, and the gun had to be replaced. as found that instead of making this tube solid we could put a inside of it, just the same as a cylinder liner in an engine, and that liner wore out, instead of buying a new gun we would buy w liner and replace it. From time to time it has been the policy roup, say, four ships with similar caliber guns. By providing er cent spares we have four guns ready to replace (a quarter of total supply of guns) on one ship, so by regulating the firing, h I will explain to you later, we can take a ship at a time, take spare guns and put them on this ship where the guns are worn; those guns and reline them, take the next ship, put those guns er, and reline hers. That is what we do.

: Kelley. If the gun were solid and anything happened and it out on the inside so it would not shoot straight, we would have

pandon the gun?
Davis. No doubt.

. Kelley. Now they put a liner inside.

· Davis. The wearing out of the liner is occasioned by using the

lmiral McVay. Yes, sir.

· Davis. Did you have occasion during the war to shoot them much?

lmiral McVay. We are firing guns all the time.

: Kelley. In target practice?

Imiral McVay. Yes, sir.

. Kelley. It is the practice of the Navy Department in target tice, as I understand, to shoot with reduced charges, so as to · not so much erosion of the gun ?.

lmiral McVAY. Of course, a gun is nothing but an engine where u run at slow speed you save the engine.

· Davis. And the less target practice you have the less occasion dining the guns?

. Kelley. And the less accuracy in shooting if you have to shoot. miral McVAY. A 14-inch .50 caliber gun costs \$116,000, and if placed it rather than relining it it would make a great deal of ence.

. Davis. I can see the propriety of relining, but I wanted to explained for the record what the relining meant and the sion for the relining.

miral McVay. Is that satisfactory?

. Davis. Yes, sir; very satisfactory. I thank you very much.

OVERHAUL AND REPAIR WORK OF TURRET EQUIPMENT.

. Kelley. The next is section E? miral McVay. That is the overhaul and repair work of turret oment. From time to time it is necessary to overhaul the equipas it wears and also to make additions to keep up with the progress. The estimate submitted for this particular section was \$654,600, giving an itemized list of the work to be done. I made a reduction to \$300,000.

Mr. Kelley. This involves the repair of turret equipment on any

capital ship?

Admiral McVAY. We have here the particular ships that they go on.

MAINTENANCE OF AMMUNITION DEPOTS, ETC.

Mr. Kelley. Section F, maintenance of ammunition depots, routine work, overhaul, care, preservation, etc., \$1,567,600. You have that by stations, I suppose?

Admiral McVay. Yes, sir.

Mr. Kelley. In your bureau you have all the maintenance charges you do not share with Yards and Docks at all?

Admiral McVAY. At the ammunition depots which are directly

under the bureau we pay all maintenance charges.

Mr. Kelley. They do your work of repairs to buildings and docks and that sort of thing. Yards and Docks, but you pay the bills?

Admiral McVAY. Actually, the line is drawn at new construction. They do all the work in new construction and we pay for the maintenance.

Mr. Kelley. They do the work, but you pay for it?

Admiral McVAY. No. sir.

Mr. Kelley. You do it yourself?

Admiral McVAY. Yes, sir.

•Mr. Kelley. Have you a force for making repairs on buildings? Admiral McVay. Yes, sir. The reason for the division is to reduce

the overhead. These are small stations as compared with navy yards. If we had a separate organization there it would require a public works officer and two or three clerks, and we found our method very much cheaper.

Mr. Kelley. Take this plant here, the Washington yard?

Admiral McVay. That is under a different category. That is a navy yard, and while at an ordinary navy yard only 3 per cent of the maintenance charges would fall on the Bureau of Ordnance, because it is divided in accordance with the amount spent at the yard for the different bureaus, at Washington it will run about 98 per cent, because practically all the work is ordnance. At our stations it will run 100 per cent.

Mr. Kelley. Why would it not be feasible, Admiral, to take a yard like the Washington Yard and have you responsible for all the maintenance charges, so that we would know, for instance, in making the appropriation for Yards and Docks that there was nothing in

their appropriation for a yard like this?

Admiral McVay. It is feasible, but there are certain duties prescribed by Yards and Docks for navy yards in the regulations and under the law. Appropriation "Ordnance and ordnance stores" would have to be increased.

Mr. Kelley. I am speaking now with a view to possibly having

the regulations modified.

Admiral McVay. Yes, sir; it is feasible, but there are certian dutient that we feel they should perform and I feel they should do underexisting circumstances.

Mr. Kelley. Nearly all the other navy yards would naturally all under the Bureaus of Construction and Repair and Engineering. Will it not be possible to have them bear all the maintenance charges or yards like that and finally segregate a definite line of expense which would be carried in the appropriation for the Bureau of Yards and Docks? It is a great deal of trouble now to know what they are joing to pay for and what not and it is very hard to make the approriation. It seems to me you men in authority, running these great ndustries, ought to work out for Congress and for the department ome plan so when we made the appropriation for Yards and Docks we would know where the money was going to be used.

Admiral McVay. I have not gotten much work out of my assistant or the last three or four weeks because he is on a board which is

coing into this particular question.

Captain PINNEY. We are hoping to do that very thing, to bring it wound so that we can make every charge as far as we possibly can a leterminate charge against some appropriation and to have control of it. In the meantime we are putting into effect on the 1st day of July a modification of the system of accounting whereby we will have nore data to enable us to do this in preparing the estimates for next

Mr. Kelley. Do not fix it so that you will have too many clerks. Captain PINNEY. No, sir; it will all be done without-

Mr. OLIVER (interposing). Will any legislation be required to carry

out the plan you have in mind?

Captain PINNEY. No, sir; simply the appropriations would fall inder different headings, and there would be a modification of the mounts, shifting from one to the other in the adjustment.

Admiral McVay. Apropos to this discussion of cost, the Bureau of Irdnance is different from the other bureaus because we run our

wn plants.

Mr. Kelley. Except for the new construction? Admiral McVay. Except for the new construction, but we run

hese plants right from the bureau.

Mr. OLIVER. In that connection, if you feel that you will conclude ome definite plan whereby you can accomplish what you have adicated within the next few months, would it not be well if we would place some proviso in this appropriation bill so the Secretary of the Navy might allocate some appropriation?

Mr. Kelley. Make a different division?

Mr. OLIVER. So as to conform to the plan which is finally accepted. Mr. Kelley. I presume they would like that. I think this is what Mr. Oliver has in mind and I rather think you would agree. I lo not know whether Congress would agree to it. Suppose, for instance, that in making the appropriation for Yards and Docks of \$5,000,000 or \$6,000,000, the lump sum, whatever it might be, under rour new classification, of course, that might be too much or it might be insufficient, and some of the charges that have been going to Yards md Docks would under your plan be transferred to Construction and Repair or some place else. Under Mr. Oliver's suggestion it might be becessary to put in a provision authorizing the Secretary to consider be appropriation of these funds as one.

Admiral McVAY. No, sir.

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Mr. Kelley. You would not want your funds interfered with? Admiral McVay. No, sir.

Mr. OLIVER. I feel this way about it: Since the officers have indicated that they feel confident with this plan they will be able save money to the Government and at the same time enable us w always know-

Mr. Kelley (interposing). Hereafter.

Mr. Oliver. Hereafter; exactly what has been expended in this or that out of these funds, I should like to put them on probabil and give them a little leeway during the year so we would know when they came before us next year whether or not their hopes had been realized.

Mr. Keller. So they would not be in the embarrassing position during the year of saying that the plans they had worked out could not be carried out because of insufficient funds in one appropriation or another.

I wonder if you can not reduce the number of marines at some We should like to make a little saving if we could in your depots. the distribution of the Marine Corps.

Admiral McVAY. Every time you take away a marine I have to

pay a man \$3.68 a day to take his place.

Mr. Kelley. Have you surveyed the field lately to determine whether you might have a little surplus of marines?

Admiral McVAY. Yes, sir.

Mr. Kelley. How many marines have you at Hingham?

Admiral McVay. That is a pretty big station—51. The advantage of the marines-

Mr. Kelley (interposing). I know there is an advantage, but wondered if you could not get along with a fewer number.

Admiral McVay. Every time you take away a marine or a saile

it costs us so much more for a civil employee.

Mr. Kelley. What do you pay now for a watchman? Admiral McVay. \$3.68 on the average.

Mr. Kelley. That would seem like rather large pay for a watchman ?

Admiral McVay. Yes, sir. At some of the magazines the way do, is to have a certain number of houses in the grounds that the men live in, and they get those houses for providing fire protection That is our great difficulty, to keep the brush and everything down and out of the way to keep fires from spreading. The advantage the marines is that they are inspected and under military confid and I am for keeping them, as many as we have to have, because they are much more efficient.

Mr. Kelley. I think you are right about that. Where you have to have a good man the marine is the best. I thought possibly in r different establishments you could release, perhaps, 50 or 100

s altogether? I McVAY. We have not very many.

You have 51 at Hingham. How many have you VAY. To highest number we have any place is e qiji e we have re, quite a in re hundr эf worth of store

шy.

Mr. Kelley. How many are there altogether? Do they work 8 urs per day?

Admiral McVAY. Yes, sir.

Mr. Kelley. You have to keep them watching all the time? Admiral McVay. Yes, sir. There are 663 of them all told, and ere are 14 stations. Now, that is \$3.68 per day for watchmen, or at is what it would cost us under this appropriation to replace It would be about \$2,000 per day.

Mr. Kelley. And they would not be as good help to you around

e ammunition?

Admiral McVay. No, sir; I want to keep my own people.

Mr. OLIVER. We would not want you to have to substitute for I think that would be a mistake.

Admiral McVAY. I am quite sure it would be.

Mr. Kelley. How many enlisted men do you have?

Admiral McVay. I do not expect to have more than about 425. Mr. Kelley. In all the stations?

Admiral McVAY. Yes, sir.

Mr. Kelley. Are they watchmen mostly?

Admiral McVay. No, sir; not watchmen at all. They run the ats, and at certain of the stations where we have very confidential

ork to be done we have chief petty officers do it.

Mr. Kelley. Would that be in the case of proving the guns? Admiral McVAY. No, sir; in connection with torpedoes and mines. Mr. OLIVER. A part of the duty is of a military nature, and I esume that results in a training that would be of good service in se an emergency should arise?

Admiral McVAY. Yes, sir; that is the idea. That is the great fliculty in making a reduction of any force at a torpedo station, r instance, because those men have been doing the work and we we been teaching them to do the work. Then they go to sea and me others come in.

Mr. OLIVER. So that it is really a naval training?

Admiral McVAY. Yes. sir.

Mr. OLIVER. And it is absolutely essential to the proper carrying of your work?

Admiral McVay. Yes, sir. There are certain things that we would ot permit civilians to do, because we have no hold on them. out and take this information with them, and we can not afford at. Our chief petty officers are the men who do this, and they are en of long service. We will not lose them and we can trust them.

FORT LAFAYETTE, N. Y., ROOF CONSTRUCTION.

Mr. Kelley. Yesterday there was considered an item of \$10,000

ra roof on one of your buildings.

Admiral McVay. That is a roof at Fort Lafayette, in New York Iona Island is quite a way up the Hudson River, out of e range of guns, and this station at Fort Lafayette is simply a place which they bring down ammunition. For instance, if a ship mes in harbor and lands ammunition there, we ship it later to Iona and, or we may bring a barge load of ammunition down from there. e city regulations make that rather difficult.

Mr. Kelley. Is the roof in such shape that it can not be repaired?

Admiral McVay. No, sir; we can repair it.

Mr. Kelley. I understood that they had to replace it entirely.

Admiral McVay. This item covers approximately one-eighth of the roof of the magazine building at Fort Lafayette, the other seveneighths having been covered in 1918 at a cost of \$67,900.

Mr. Kelley. What do you cover it with?
Admiral McVay. It is a fireproof material, and it is to keep out the water. If the ammunition gets wet, we have to take it off.

Mr. Kelley. What do you put on the roof?

Admiral McVAY. That is a detail that I am not positive about.

Mr. Kelley. It is some fireproof material?

Admiral McVAY. It is iron.

Mr. Kelley. Are there any large items of repairs at any of these naval ammunition depots?

Admiral McVay. No, sir. There is one for a dock at Iona Island, but that is in Yards and Docks estimates. Ours are not large.

Mr. Kelley. The bulk of this first column for upkeep, mainte-

nance, and repairs is for maintenance?

Admiral McVAY. Yes, sir; practically all of it. Our repair work is very small.

Mr. Kelley. This covers fuel, coal, etc.? Admiral McVAY. Yes, sir; everything. Mr. Kelley. And civilian employees?

Admiral McVAY. Yes, sir; except the classified. That is in a separate column.

OPERATING EXPENSES, NEWPORT, R. I.

Mr. Kelley. For operating expenses at Newport, R. I., you estimate \$962,465, for the Newport (R. I.) Naval Torpedo Station. suppose that is mostly pay, or is this a repair proposition entirely

Admiral McVAY. It is for the upkeep of the grounds. the main island, and some buildings on Goat Island, Gould Island

and Rose Island. We have three islands.

Mr. Kelley. This estimate for Newport, R. I., amounting to \$1,256,665 simply includes repairs, upkeep, and maintenance buildings, the repair of torpedoes now in the service, and the furnish ing of spare parts, and that sort of thing.

Admiral McVAY. Yes, sir.

Mr. Kelley. It does not include anything for new torpedoes? Admiral McVAY. No, sir; nothing.

CHARLESTON, W. VA.

Mr. Kelley. For Charleston, W. Va., you have a total of \$626,50 I wish you would give us that in detail.

Admiral McVay. That is now closed up.

Mr. Kelley. It is closed up entirely, so that it does not appe Admiral McVAY. That has been cut out. The only thing in the connection is this: I called on the inspector to give me the cost maintaining the plant in a condition of readiness, and he submit an estimate of about \$268,000 a year. I sent it back and told I would like to have another one, and he gave me another one wh I considered too low. I figure that it will cost us to keep and maint place for a year about \$125,000.

Mr. Byrnes. What will you do to maintain it, or what kind of orce will you keep there?

Admiral McVay. We have to keep a force to guard the plant, and we will have to keep a force to examine the machinery.

Mr. BYRNES. Whom do you keep there for guarding the plant? Admiral McVay. We may have to have civilians.

Mr. BYRNES. Do you have three shifts, guarding the plant 24 ours every day?

Admiral McVay. Yes, sir; we will have to do that if it is closed

p.

Mr. Byrnes. What else do you have besides watchmen?

Admiral McVay. There will be a certain number of men to exmine the machinery and turn it over and keep it from rusting. hat is practically the limit.

Mr. Byrnes. It is cheaper to use watchmen than to use marines

r enlisted men?

Admiral McVay. We have marines there now. We could not set enlisted men for that.

Mr. Byrnes. Would it be cheaper to have marines perform that

uty?

Admiral McVay. I think it is cheaper to have marines, yes, ir; but that comes under another appropriation.

Mr. Byrnes. Under what appropriation?

Admiral McVay. For the Marine Corps. It is cheaper, I believe. It any rate, it is more efficient.

Mr. Byrnes. You stated that you expected to put civilian guards

here.

Admiral McVAY. I may have to.

Mr. Byrnes. Why do you say you may have to?

Admiral McVAY. Because if they reduced the number of enlistnen in the Marine Corps, and they were withdrawn from that staion, which will probably happen, then I would have to employ ivilians.

Mr. Byrnes. If marines are furnished, you would not employ

ivilian watchmen?

Admiral McVay. No, sir; we would not employ them. I would hen limit it to the employment of people to look out for the mahinery. I have fixed the arbitrary figure of \$125,000 for that rork.

Mr. Byrnes. How many marines will you require?

Admiral McVay. We had 43 in December and 1 officer.

Mr. Kelley. Do they work in 8-hour shifts?

Admiral McVay. Yes, sir; they take tours of eight hours.

Mr. Byrnes. Your opinion is that it would be cheaper to have parines than to employ watchmen?

Admiral McVAY. Yes, sir.

Mr. Byrnes. What would you pay watchmen?

Admiral McVay. The average is about \$3.68 per day, but I am ore interested in the fact that the marines are much more efficient. Mr. Kelley. The expenses other than the maintenance of South carleston, you will eliminate entirely?

Admiral McVAY. Yes, sir; if the treaties go through.

Mr. KELLEY. That would take off what appears in the third numn?

Admiral McVAY. Yes, sir.

INDIANHEAD AND DAHLGREN, MD.

Mr. Kelley. Are there any other places in a similar situation that of Charleston because of the treaties? How about Indian and Dahlgren? Will they come down some?

Admiral McVAY. Dahlgren and Indianhead are very much be last year. For Dahlgren and Indianhead we have the amoun \$500,000 this year, as against something like \$1,500,000 last year. Kelley. What is the item of \$380,000 for Indianhead?

Admiral McVay. I have cut that to \$200,000, because, in first place, we will finish our program about the 1st of August powder, and then the work for these airplane carriers will give us months more. What I am figuring out now is what it will cost upkeep, and not for running, and what it will cost to run it at reduced capacity in order to maintain our force. I think it is advisable to maintain our force. I have found, for instance, when we were turning out powder at the rate of 6,000 pounds day the cost of the powder was high; so I told the inspector to to out all the powder he could per day with the minimum force when had, or just enough to carry the plant, and he cut the cost cents per pound just by doing that.

When I figure out the maintenance charge and disregard all I tary reasons for continuing it, which I consider of the utmost im tance, I think it will probably pay us to assume that extra ch

per pound of powder.

Mr. Kelley. Fifteen cents? Admiral McVAy. Yes, sir.

Mr. Kelley. The powder you are making there is of small call Admiral McVay. No; we are finishing up for the 16-inch 45-cal guns.

Mr. Kelley. You will probably discontinue that right away?
Admiral McVay. No, sir; that work will continue, I figure, to about the lst of August.

about the 1st of August.

Mr. Kelley. We have how many ships which carry that?

Admiral McVAY. Three.

Mr. Kelley. And you are making the powder for those ships? Admiral McVay. Yes, sir; then when we finish that we must s on some 6-inch powder.

Mr. Kelley. But you are going to run the plant at the

minimum?

Admiral McVAY. Yes; the very minimum at which I can main the force.

Mr. Kelley. You do not mean to maintain the entire force,

to maintain the organization?

Admiral McVay. Yes, sir; that is all we have now, the small number of men that can operate the plant efficiently, and I thin would be very wise to go up in the cost of powder and keep force together.

Mr. Kelley. Have you cut the estimate for the Dahlgren Pro-

Ground ?

Admiral McVAY. Yes, sir; we cut that to \$300,000. We work in sight there right along.

Mr. E Just give us the de s of the Admi VAY. I have not the quite it.

0,000. We in the original to \$300,000.

Mr. Kelley. Is there a power plant there?

Admiral McVay. Yes, sir.

Mr. Kelley. And that would include the maintenance of the

wwer plant?

Admiral McVay. Yes, sir; the upkeep of the grounds and the tests of materials, as well as our range work. Of course a part of the expense is covered by experiments, ordnance, and a part of it will be covered in the cost of material for new construction.

Mr. Kelley. Will you take the smaller guns down there?

Admiral McVAY. We have everything there.

Mr. Kelley. You do not do any testing at Indianhead?

Admiral McVay. Practically none. It is a considerable expense o continue that work at two places.

Mr. Kelley. This will not be run very extensively, will it?

Admiral McVay. Oh, yes; very extensively.

Mr. Kelley. As much so as heretofore?

Admiral McVay. Yes, sir; I expect to keep it going right along on tests and development work. It takes a long time to work out new things—fuses, ranging, test of projectiles, illuminating shells, and all that sort of thing.

Mr. Kelley. There is not anything included in this \$300,000 for

construction ?

Admiral McVAY. Nothing whatever.

Mr. Kelley. You have finished your construction entirely?

Admiral McVAY. We are not permitted to construct anything new. Mr. Kelley. This item is simply for the upkeep of the plant—the power and lighting?

Admiral McVay. Everything of that kind. It is maintenance.

Mr. Kelley. And necessary repairs and experimentation?

Admiral McVAY. Experimentation; yes.

Mr. Kelley. It is really an operating expense rather than a maintenance expense?

Admiral McVAY. We call it a maintenance expense, but it is an

operating expense.

Mr. Kelley. How many civilian employees do you have there?

Admiral McVay. We had 358 on the 1st of January. Mr. Kelley. Will you need that many next year?

Admiral McVay. Yes, sir; we expect to keep practically all of them.

Mr. Oliver. What is your officer personnel there, your enlisted personnel, and Marine Corps?

Admiral McVay. There are 71 marines at the two stations, some

at the powder factory and some at the lower station.

Mr. OLIVER. What is your officer personnel and enlisted personnel? Admiral McVay. We have 11 commissioned officers of the line and warrant officers, making 17, and 10 of the staff. Of these 17 of the Mr. OLIVER. What about your enlisted personnel?

Admiral McVAY. There are 83 in the enlisted personnel, both

hore and affoat.

Mr. OLIVER. Do I understand that the appropriation you are king for does not include any item for new construction or for building, but purely for the purpose of carrying on your experi**ental** work and maintaining the station?

Admiral McVAY. And operating it, overhauling, making repairs, and all that sort of thing. Of course, when a road requires repairs we must fix it up.

Mr. OLIVER. You have concrete roads there now, have you not!

Admiral McVAY. No, sir; not concrete roads.

Mr. OLIVER. Then you have a railroad there for switching purposes? Admiral McVAY. Yes, sir.

Mr. Oliver. And you have an air field there?

Admiral McVAY. A very small one.

Mr. OLIVER. I thought you were contemplating enlarging that, and has it been enlarged?

Admiral McVAY. No, sir.

Mr. OLIVER. I thought it was to be doubled in size.

Admiral McVAY. No, sir.

Mr. OLIVER. You do all of your gun testing there, both large and small?

Admiral McVAY. Practically all; yes, sir.

Mr. OLIVER. Do you find it is a better station for testing your guns than the one you abandoned?

Admiral McVay. Indianhead has not been an efficient station

for the last 20 years.

Mr. OLIVER. In other words, you are not prepared at Indianhead

to test your large guns?

Admiral McVAY. It is not possible to range a modern gun at Indianhead without taking a risk which I will not take.

Mr. OLIVER. And you find that at this place you can test both

the small and large guns?

Admiral McVay. Yes, sir. At Indianhead you can not range a gun, under ordinary conditions, beyond 12,000 yards, although on an exceptional day you can range it to 14,000 yards, but at Dahlgren we have a line of fire of 30 miles. We found that none of our range tables were correct because they had been calculated from firing at 8 degrees elevation only, and beyond a small range of 14,000 or 15,000 yards the ranges were calculated and were not determined as a result of firing and, therefore, were not checked; they were all incorrect, and that is a matter of the greatest importance in opening ranges for battle as well as throughout a battle, and it has not been possible, since long-range guns came into being, to properly range them at Indianhead, nor can it be made possible to do it there.

Mr. Byrnes. What is the reason?

Admiral McVay. I would like to show you this map, as I think it would be better than all the talking I could do.

Mr. Kelley. You want \$1,900,000, I take it, for the classified

service?

Admiral McVay. We cut that to \$1,000,000.

Mr. RAY. We made the cuts for South Charleston, Indianhead, and all those places.

Mr. Kelley. Separately?

Mr. RAY. No, sir. We cut from \$1,900,000 down to \$1,000,000,

and that includes the cuts for all the other stations.

Mr. Kelley. That is about twice as much as you had before the war, but I suppose you can not cut any more now, and your wage are higher.

Admiral McVAY. The wages are higher, and the clerical and technical force of the bureau is divided up; Captain Pinney has arranged and rearranged it so that we have clerks doing work for two or three different sections.

In accordance with the wishes of the committee, the following summary is furnished, showing the composition of the estimate under the appropriation "Ordnance and ordnance stores" as originally submitted to Congress, and the reductions made which bring the total amount required down to \$10,700,000:

Original estimate as submitted to Congress:		
Gun section	\$900,000)
Turret mount section	300,00	0
Powder and explosives section (includes maintenance of	•	
ammunition depots)	1, 567, 60	0
Torpedo section (includes maintenance of torpedo stations).	1, 450, 00)
Armor and projectile section (includes maintenance of	-, -55, 55	-
	2, 150, 000)
Fire control and optical section	2,000,00	ń
Fire control and optical section	2, 000, 00	•
rafts)	950,000	1
Aviation ordnance section	350,000	
	650, 000	
Mine section	000,000	,
Marine Corne elletment at a language anotherus, contingent,	010 404	`
Marine Corps allotment, etc.)	912, 400	
Classified employees	1, 900, 00)
/n-4-1		-
Total		. \$13,130,000
Reductions:		
Reduction to new rates of pay at navy yards and stations		
(approximately 12) per cent for mechanics, etc., and 17		
per cent for clerical, drafting, technical force, etc.)		
Reduction in estimated cost of projectiles	115, 25	2
<u> </u>		-
Total	1, 115, 390	3
In round figures.		1, 130, 000
		12,000,000
Further reductions on account of scrapping ships—		
Elimination of 16-inch target projectiles	129,000	
Reduction in maintenance, South Charleston	125, 000	
Reduction in maintenance, Indianhead	180,000	
Reduction in maintenance, Dahlgren	.70, 000)
Reduction in classified force (clerical, technical, draft-		
ing, inspection, etc.) and miscellaneous savings	800,000)
		-
Total	1, 304, 000	
In round figures		1, 300, 000
Total	• • • • • • •	10, 700, 000

Limitation on amount to be expended for chemists, clerical, drafting, inspection, watchmen, and messenger service in navy yards, naval stations, etc., to be reduced from \$1,900,000 to \$1,000,000.

PURCHASE AND MANUFACTURE OF SMOKELESS POWDER.

Mr. Kelley. For purchase and manufacture of smokeless powder you had \$200,000 last year?

Admiral McVAY. Yes, sir.

Mr. Kelley. What is your estimate for this year, Admiral? Admiral McVAy. I cut that to \$167,000.
Mr. Kelley. This is small ammunition?
Admiral McVAy. That is for the target-practice powder.
Mr. Kelley. You have no stock of this powder on hand?

Admiral McVAY. We have not an adequate stock. Mr. Kelley. For target practice? Admiral McVAY. No. sir.

EXPERIMENTAL WORK.

Mr. Kelley. For experiments, Bureau of Ordnance, last year you had \$250,000; what is your estimate this year?

Admiral McVay. I cut that to \$205,000.

Mr. Kelley. You are keeping up the same general line of experiment ?

Admiral McVAY. Yes, sir; we have all we can do.

CONTINGENT, BUREAU OF ORDNANCE.

Mr. Kelley. For contingent, Bureau of Ordnance, you had

\$20,000 last year?

Admiral McVAY. I cut that to \$18,000. There is no change in price for type of material carried, but I thought as long as we were cutting we would cut that, too.

NAVAL AMMUNITION DEPOTS, ETC.

IONA ISLAND, N. Y., REPAIRS TO SOUTH DOCK.

Mr. Kelley. On page 118 there is ordnance storage in the Philip-

pines. I imagine that would be a violation of the treaty?

Admiral McVAY. That is cut out. Cavite and Olongapo, of course, come out. At Iona Island, N. Y., that is merely repairing the dock so we can use it.

Mr. Kelley. That is necessary?
Admiral McVay. Yes, sir. That dock is about 300 feet long.
Mr. Kelley. Three hundred by 25 feet. He says you could rebuild it for \$15,000?

Admiral McVAY. I do not believe you could rebuild that dock for \$15,000.

Note.—The south dock at Iona Island was used as the main landing before purchase by the Government in 1899, and, except for minor repairs at various times by the station force, is the original construction in use at the time of purchase. No new construction has ever been done, and the piles and stringers are in an extremely bad condition, about 40 per cent of which have been broken off or rotted to such an extent that they render no support to the dock whatever. Due to the heavy ice formation at this place in the Hudson River during the winter season, and the length of time the present structure has been in use, the repairs outlined are deemed of the utmost necessity, as this dock has been and is in constant use.

LAKE DENMARK, N. J., ADDITION TO WATER MAIN, ETC.

Mr. Kelley. Is it necessary to put in the standpipe at Lake

Admiral McVAY. Yes, sir. That is about 20 years old. It is apt to go out any time and then we would have no fire protection.

Mr. Kelley. The next item is the roof that we talked about a while ago?

Admiral McVAy. Yes, sir.

CHARLESTON, S. C., MAGAZINE FOR WAR HEADS.

Mr. Kelley. What about this magazine for war heads at Charles-

on? Is it necessary to build any more magazines?
Admiral McVay. The trouble with the war heads is that the active estroyers are based on Charleston and the war heads are at present t Newport.

Mr. Kelley. My understanding is that they are going to take the

estroyers to Philadelphia?

Admiral McVAY. Those that go out of commission. The active estroyers will be based on Charleston.

Mr. Kelley. There will be only 19 in the Atlantic, one division?

Admiral McVay. Yes, sir.

Mr. Kelley. They are asking for five squadrons of 19 each and our of them are going to the Pacific, one to the Atlantic, and eight n the Mediterranean, so I should think you could get along without We do not want to handicap you in any way.

Admiral McVAY. I think it would be very dangerous. These var heads have to be put off by themselves, because if you put hem where the torpedoes are or around the station they may blow

As to the fuse and detonator house at Puget Sound, that is a very iolent explosive and goes off very easily.

ARE ISLAND, CALIF., NAVAL AMMUNITION DEPOT, ADDITIONAL STORAGE PACILITIES.

Mr. Kelley. The next item is the additional storage facilities at Mare Island, Calif. If it is an addition to the building, we can carry t; if it is a new building, we can not.

Captain PINNEY. That is a difficult question to answer. revious appropriation gave us a certain length of building, which The additional construction will be a continuation of vas cut off. he same building.

Mr. Kelley. How far is this away from the yard?

Admiral McVAY. It is on the island, a couple of miles from the ndustrial section.

PEARL HARBOR, HAWAII, NAVAL STATION, LIGHTING AND POWER EXTENSION.

Mr. Kelley. Is this storage building in Hawaii necessary? Admiral McVay. Yes, sir.

Mr. Kelley. Is that an addition to the building?

Admiral McVAY. It is additional storage facilities; we can not xtend that.

Mr. Kelley. The lighting and power extension, do you have to uave that?

Admiral McVay. Yes, sir; \$15,000.

Mr. Kelley. They said that involved laying new conduits, taking he wires out of the air and putting them under the ground?

.Captain PINNEY. Yes, sir; that is right. The temporary poles are a ource of constant danger, because they blow down at every wind.

NAVAL TORPEDO STATION, KEYPORT, WASH., TORPEDO STORAGE.

Mr. Kelley. The next item is the torpedo storage at Keyport, Vash. That is an addition to the building? Captain PINNEY. I think that is; I am quite certain it is.

Mr. Kelley. You have a building that is not quite the right shape, or something of that kind?

Captain PINNEY. It is a short building and there is room to extend

and make it longer.

Mr. Kelley. Then, it is an addition to the storage?

Admiral McVay. Yes, sir.

Mr. Kelley. Do you think you have to have that this year? Admiral McVay. Yes, sir.

Mr. Kelley. Last year you stated that you could get along without it?

Admiral McVAY. Yes, sir; but we have to have it now.

Mr. Kelley. Because of the larger number of ships out there? Admiral McVAY. Yes, sir.

FRIDAY, MARCH 17, 1922.

BUREAU OF MEDICINE AND SURGERY.

STATEMENTS OF REAR ADMIRAL E. R. STITT, SURGEOF GENERAL, UNITED STATES NAVY; DR. W. S. GIBSON. CHIEF CLERK; AND MR. W. R. JOINER, CHIEF PHARMACIST.

SURGEONS' NECESSARIES, ETC.

Mr. Kelley. We have with us this afternoon Admiral Stitt, the Surgeon General of the Navy, and his assistants. Admiral, you have for surgeons' necessaries for the current fiscal year an appropriation of \$2,920,000. How much are you estimating for this year?

Admiral Stitt. \$2,400,000.

Mr. Kelley. I would be glad to have you make any statement you care to make about that reduction and how you brought it about.

Admiral Stitt. In the appropriation for the fiscal year 1921 we had \$2,500,000, and then we were given a deficiency appropriation of \$500,000, making \$3,000,000. Of that \$3,000,000 we will turn in the sum of about \$558,000, and we calculate that of the \$2,920,000 that you gave us last year we will turn back into the Treasury about \$500,000. That represents expenditures of about \$2,400,000. We have been from month to month trying to decrease the expenditures by cutting down requisitions, but I rather think that we are getting to the point where it will be difficult to save much more.

Mr. Kelley. Have you the details of this estimate by stations!

Admiral Stitt. Yes, sir.

Mr. Kelley. This table covers the civil establishment and medical supplies?

Mr. JOINER. That is for medical supplies alone.

Mr. Kelley. What is the total amount required for surgeons'

supplies out of this \$2,400,000?
Admiral Stitt. \$1,700,000 is what we have estimated for the civilian employees in the hospitals, and then the remainder, including small amounts for special diets, is for medical and surgical supplies and takes up the rest of the \$2,400,000.

Mr. Kelley. The civilian employees take \$1,700,000 and the timate for supplies is \$700,000?

Admiral STITT. Yes, sir; including an amount for special diets. Mr. Kelley. The \$1,700,000 for civilian employees includes all of ne help in all of the hospitals, exclusive of the nurses?

Admiral Stitt. Exclusive of the nurses and the Hospital Corps. t includes the carpenters, painters, plumbers, cooks, mess attendants, undrymen, and all civilian employees that are necessary in con-

ucting a hospital service.

Mr. Kelley. If we should reduce the Navy to 65,000 men, or some uch number, would it make some difference in this item of \$1,700,000 or civilian employees in hospitals?

Admiral STITT. We could reduce only by putting hospitals out of

ommission if they were not needed.

Mr. Kelley. That would probably follow, would it not, with the

avy reduced to 65,000 men.

Admiral STITT. Wherever we see we are justified in doing so we do For instance, since I appeared before you last year, we have urned over our hospital at Fort Lyon, which was the tuberculosis ospital of the Navy, to the Veterans' Bureau. It was, as you will emember, about an 800-bed hospital that could possibly be expanded nto a 1,000-bed hospital. We had only about 150 Navy patients By reason of the fact that those tuberculosis cases in the Navy vere entitled to war-risk compensation, those patients were charges if the Veterans' Bureau rather than of the Navy. Therefore, we ound that we could not justify ourselves in using that hospital. 'he Veterans' Bureau was very desirous of having a large hospital of hat kind, and it was given to them by Executive order. The hos-ital, with its equipment and everything of that sort, was turned ver to them October 31, 1921, but it was run by Navy personnel up intil March 1, 1922. Now they are running it with Public Health bervice personnel. As I have said, that hospital was put of commision, and, of course, if we saw that we would hardly be justified in eeping a hospital for the Navy, we would probably follow that rocedure and turn it over to the Veterans' Bureau, if they should be need of such a hospital.

Mr. Kelley. You would concentrate your patients into fewer ospitals, and turn over the excess hospitals to the Veterans' Bureau?

Admiral Stitt. Yes, sir.

CARE OF PATIENTS OF VETERANS' BUREAU.

Mr. Kelley. How many patients are you taking care of for the 'eterans' Bureau in naval hospitals?

Admiral Stitt. We are offering them 3,000 beds. That is one of he great difficulties we have. For instance, at the Chelsea Hospital, ear Boston, we offered them 539 beds. We had figured for the vavy's needs a certain amount in the way of hospital wards for caring or contagious diseases, where we had only a few cases of each kind f disease, and certain wards had to be put out of commission for ainting, etc. We figured that we could let them have 539 beds. Ve thought that they would use every one of those beds, because at hat time there were more patients in that district than there were eds available, but at the present time they are using only 339. In

other words, there are 200 beds available for them that are not occupied. While we have 3,000 beds that we are offering them, they have only 1,394 patients for those 3,000 beds.

Mr. Kelley. You could take 1,700 more patients from the Vet

erans' Bureau than they are now giving you?

Admiral STITT. With additional personnel, yes, sir. If they should tell us. "We are going to give you 100 additional patients within the next month or so," then we would try to get additional nurses and doctors sent to the hospitals so as to take care of that additional number of patients.

Mr. OLIVER. Do they contribute to the expense of caring for the

patients that they send to you?

Admiral STITT. That arrangement was made by my predecessor. Surgeon General Braisted.

The Chairman. They pay about \$4.25 per day per patient?

Admiral Stitt. \$3.

The CHAIRMAN. But the total cost would run up to that!
Admiral STITT. Yes, sir; but at the present time we are not paid for the personnel—that is, for the medical personnel, nursing personnel, and the Hospital Corps personnel—except to this extent: You may remember, Mr. Kelley, that I asked your permission last year to take up with the Bureau of Navigation the matter of their enlisting 500 additional Hospital Corps men for us, so as to be able to take care of Veterans' Bureau patients. The Veterans' Bureau agreed to that and transferred to "Pay of the Navy" \$410,000 for the pay of those additional Hospital Corps men, but with the exception of that amount, the other charges for personnel have been borne by the Navy.

Mr. Kelley. How do you fix this charge of \$3 per patient? Admiral Stitt. We held a conference with the Veterans' Bureau or, rather, with the War Risk Insurance Bureau, as it was then During the fiscal year 1921 the cost of subsistence and maintenance of buildings, including additional power plants, and everything of that sort accounted for in all of the hospitals that were taking care of patients of the Veterans' Bureau, was \$3.12. We are coming down

in cost all the time, and I believe that cost would not be 3 cents away

from the figure of \$3, one way or the other, if we took the cost up in date, exclusive of the personnel.

Mr. Kelley. You have to have more nurses, of course?

Admiral Stitt. Yes, sir.

Mr. Kelley. And also more doctors on account of the war-risk

patients?

Admiral STITT. The Federal Board on Hospitalization has estimated—and that is their requirement of all contract hospitals taking care of Veterans' Bureau patients—one doctor to 20 patients, and one nurse to 10 patients; so that with those requirements we would have to have a number of medical officers that we have not felt necessary for the Navy. We must meet their requirements, and we have had to add to the number of our doctors, over what we comsidered necessary for the Navy. As I probably expressed it last year, it is very difficult for us to form any estimate as to how many Navy patients we may expect in the hospitals c uously. That is to say, when the fleet goes South, the number or vy beds in the rth, but when New York hospital may fall off one-third or t they come backMr. OLIVER (interposing). When you find it necessary to employ ditional medical help in order to meet the demands of the Vetans' Bureau, do you give to those physicians you call in a perma-

ent status in the Medical Corps of the Navy?

Admiral STITT. We have not had to call in any. We have always ade use of our own personnel, but recently we have done that by opping a measure that I think I spoke to you about last year, and ne that I feel is very important to our corps—that is, giving our edical officers an opportunity to take post graduate courses. They et rusty unless they have the opportunity of taking a three or four onths course and brushing up on medicine and surgery. Unless ley do that, they can not do the best work.

Mr. Kelley. When you find that you need more doctors at a ace, I suppose you meet the need by moving your physicians from ne hospital to another, where the naval necessities make that

ossible.

Admiral Stitt. Yes, sir.

Mr. Kelley. For instance, if you had a hospital at San Diego and e fleet had left there so that you did not need so many doctors out ere, you would assign the surplus number to some other places nere you had a deficit?

Admiral Stitt. Yes, sir.

Mr. Kelley. So that it is not any great load, or what you are ing is not to take a load on here on that account?

Admiral STITT. Except that we have not been able to give the embers of the Medical Corps an opportunity for post graduate ork and study so as to keep them up to date.

Mr. Kelley. Outside of that, we are not employing any more ctors than you would employ to handle the regular naval business?

Admiral STITT. Yes, sir. Colonel ROOSEVELT. I do not think that is quite straight.

Admiral Stitt. We have, as I have said, curtailed our professional en, and we have not provided a personnel for 3,000 of those patients. e have been able to take care of 1,394 of them, which is about the eximum number that they have sent us, without employing any rsonnel outside of the Medical Corps of the Navy.

NUMBER OF DOCTORS AND TOTAL NUMBER OF PATIENTS.

Mr. Kelley. How many doctors have you altogether? Admiral Stitt. Eight hundred and two at present. Mr. Kelley. What is your total hospital population, or total mber of patients? Admiral Stitt. The last figures were 4,805.

PROPORTION OF EXPENSE PAID BY VETERANS' BUREAU.

Mr. Kelley. You do not get anything from the Veterans' Bureau · anything except the cost of the food and the care of the patients at is, you do not get anything for taking care of the buildings or on **count** of the doctors and nurses?

Admiral STITT. For the maintenance of the buildings, yes, sir, 1 for repairs to the buildings. They also pay their part of the penses of subsistence, and pay of the civilian employees, but not pay of those coming out of Pay of the Navy, including Medical Corps, Nurses Corps, and Hospital Corps, with the exception of the \$410,000 which they transferred to Pay of the Navy.

Mr. OLIVER. Do you fix that amount according to the relative number of naval men and Veterans' Bureau men in the hospitals?

Admiral Strrt. We have not up to the present time made any

dividing line as to the classes that we are to take care of.

Mr. OLIVER. How do you apportion the expense? You say that they contribute to the expense, and I want to know how their proportion is ascertained?

Admiral STITT. It is based upon the proportionate number of

patients that they have there, and our expenditures.

Mr. OLIVER. I presume it is based upon the number of patients that they have in the hospitals as compared with the number you

Admiral STITT. Yes. sir.

ADDITIONAL MEDICAL OFFICERS NEEDED FOR INCREASE IN NUMBER OF PATIENTS.

Mr. OLIVER. Now, assuming that they should hereafter avail themselves of more of your beds than they are using now, do I understand that you will find it necessary to employ additional medical

Admiral Stitt. We would require 150 medical officers for 3,000

patients.

Mr. Oliver. Additional medical officers?

Admiral Stitt. Yes, sir; additional medical officers.

Mr. OLIVER. How would you expect to employ them, or what status

would they have in the Medical Corps of the Navy?

Admiral Stitt. My idea was that where we could, it would be the policy to use medical officers now in the Navy, and that would be 150 plus our number. I have always felt that we should adhere to sixtyfive one-hundredths of 1 per cent. The war showed us that we could get along with sixty-five one-hundredths of 1 per cent.

Mr. OLIVER. This will not always be a continuing service that you

will be required to render.

Admiral Stitt. That is true.

Mr. Oliver. I think it would be a mistake to give permanent appointments in the Medical Corps to any large number of doctors

purely for the purpose of looking after a temporary need.

Admiral STITT. Yes, sir. I believe, however, it would be wise in the event Congress reduces the authorized strength of the Navy to such a figure that our present 802 officers would be in excess of sixtyfive one-hundredths of 1 per cent to provide a means whereby the excess number could be retained in service instead of providing means to furnish temporary appointees.

Mr. Kelley. You would not be authorized to do that, would you Admiral Stitt. No, sir; except that we are allowed by law to appoint 25 acting assistant surgeons. At the present time five and used in recruiting, and there are 20 vacancies in the acting assistant surgeons corps. Now, I have taken the matter up with the Director of the Veterans' Bureau as to their paying absolutely for those of pointed men. They are not commissioned men.

Mr. OLIVER. That is the information I have been trying to elicit. Mr. Kelley. That is outside of the \$3 they pay for taking care

patients?

Admiral Stitt. Yes, sir.

CIVILIAN EMPLOYEES.

r. Kelley. Referring to this \$1,700,000 spent for civilian emees, do you make any large saving in what you had expected to d by reason of the fact that the Veterans' Bureau has paid a part nese expenses?

dmiral Stirt. That \$3 has been a credit to the naval hospital, but not to the Medical Department. So that this \$1,700,000 r the civilian employees. Of course, some of that \$3 is really

pensation for these civilian employees.

r. Kelley. So that while you might not apply the fund directly, available to reduce the amount really required for civilian

loyees?

dmiral STITT. It would be, except for the fact that the naval ital fund, sir—we feel we will have about \$200,000, possibly, see end of this fiscal year, but, for instance, on January 31, 1922, were overobligated \$2,092,000 in the naval hospital fund.

r. Kelley. Then while it is true that if it were applied it would ce this amount, yet you have kept it in the other fund because

fund was overdrawn?

dmiral STITT. Yes, sir; and we are afraid we are going to run a deficit in that fund, not this year or next year but in about

years.

r. Kelley. If the Navy is reduced as I stated awhile ago, how h of a reduction do you think could be made in each of these s of \$1,700,000 for your civilian force and \$700,000 for supplies? Imiral Stitt. It would simply be by putting hospitals out of mission or turning them over to the Veterans' Bureau; that id be the only way in which we would save money.

r. Kelley. If the establishment is reduced one-third would you

ble to reduce these items one-third?

Imiral STITT. We could not in hospitals, because to keep a hosup in the way of maintenance, painting, general repairs, and epairing of roofs, etc., is quite an item, and, as you know, at the ent time so many of our hospitals—at least three-fourths of the capacity—are in these temporary buildings; they are deteriog very rapidly and the only way we can keep them in good conn is by spending a good deal of money on them or by the use of ian employees who are carpenters, painters, and so on, having constantly at work in repairing these buildings.

. Keller. What would you suggest would be a safe reduction lese two items if we reduced the strength of the Navy by one-

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Imiral STITT. For instance, take the hospital at Great Lakes, where, at the present time, we have 600 Veterans' Bureau nts and only about 65 Navy patients; if that hospital were ced by the Veterans' Bureau funds we could save \$188,837.76.

. Kelley. If they would take it off of your hands entirely? Imiral Stitt. Yes. They are very short of personnel at Great s hospital, and what they are desirous of doing——

. Kelley (interposing). They do not seem to be short of money which to buy hospitals all over the country, so why can they not

one off of your hands without much trouble?

Admiral STITT. It is full with their patients now—600—and they are asking us to provide for 400 more; that is, they say in that district there are so many beneficiaries needing hospitalization. I was out there a week or so ago and went into the question of whether we could expand for the Veterans' Bureau from the present 600 up to 1,000 patients.

Mr. Kelley. If they took the hospital entirely off of your hands then they would have to furnish the doctors and nurses, and it would

increase the cost to them about how much per patient?

Admiral STITT. It would mean an increase, I should say, of about \$1.30 per patient per day; that is, over the \$3 they now pay us. We have figured out the personnel in the different hospitals, and where they have a large number of patients, of course, the overhead is less and the cost per patient is smaller, so I think it would be somewhere around \$1.30 for the doctors, female nurses, and so on.

Mr. Kelley. Making \$4.30 in all?

Admiral Stitt. Yes, sir.

The CHAIRMAN. That is one of the best hospitals in the country,

is it not, and the hospital is in a permanent building?

Admiral STITT. There is a permanent building, sir, but the permanent building has only a capacity of about 150 patients; then we have different types of ward buildings; they were constructed during the war of wood and they are buildings that will probably take cared 250 contagious cases, for which they were originally intended, but we are now using them for the neuropsychiatric patients of the Veterand Bureau. However, they are exceptionally comfortable and well-planned ward buildings: they are plastered inside, have slate roofs on them, and except for the fire risk you could not ask for more desirable buildings.

The Chairman. Are they east of the track or west of the track! Admiral Stitt. They are the ones between the station proper and the permanent building of the hospital. The temporary buildings at the Great Lakes, on the whole, are about the best of our wooder buildings.

Mr. Kelley. This \$3 which you get from them includes their share of everything, every expense about the hospital except the doctor

nurses, and attendants?

Admiral STITT. And it includes the civilian employees—that

cooks, mess attendants, and everything of that sort.

Mr. Kelley. So that the doctors and nurses are practically the

only ones not counted in this \$3 cost?

Admiral STITT. Yes, sir. But, as I have said before, they have transferred to pay of the Navy \$410,000 to pay for 500 Hospit Corps men. On account of the shortage in funds under "Pay of the Navy" the Bureau of Navigation did not feel justified in allowing us to enlist any more Hospital Corps men.

Mr. Kelley. So, in addition to the \$3 the Veterans' Bureau per

you \$410,000 for Hospital Corps men?

Admiral Stitt. Yes, sir.

Mr. Kelley. Can we now get an answer to the question I asked while ago, namely, if we should reduce the Navy by one-third forms year, how much could be taken off of these two items?

Admiral STITT. As I said, sir, so many of our buildings—Mr. Kelley (interposing). Can you make a fair estimate?

Admiral STITT. So many of our buildings are these wooden buildgs that we have to spend a great deal of money on repairing the ofs, and so on, and if we keep that hospital open I really feel we uld not save anything. The only thing would be to turn it over

the Veterans' Bureau or let those temporary buildings go.

Colonel ROOSEVELT. In that connection it might interest you to ave Admiral Stitt outline to you or give you an example of the roubles we run into of that kind, particularly the situation with hich we are confronted in Newport; and then, also, Admiral, is not be situation in Chicago complicated by the fact that the Veterans' bureau does not seem to be able to get psychiatric doctors out there, hat we seem to be the people and the only people who can furnish hem? Is not that so out there?

Admiral STITT. There are probably fewer specialists of that sort, insidering the demands for such men, than any other personnel—it is, medical personnel—so much so that the Public Health Service is been unable to get sufficient men of that sort, and we have had draw on the Navy for every man we had who had specialized in sychiatry and put them out at the Great Lakes to attend to the 300 sychiatric patients we have there. One of the troubles we are tving with the district supervisor's office, and the only one, I may y, from my interviews with them the other day, because they then id "it is the cleanest hospital we have," they spoke of it in the ghest terms, have the best food, and they have absoluley nothing complain about except that we have not enough medical officers ere, and particularly psychiatrists.

Mr. OLIVER. Coming back to the question asked by Mr. Kelley, I sume you will find it necessary to maintain a hospital near every ation the Navy maintains and that if you abandon any it would be hospital that would be far removed from any permanent station aintained by the Navy, assuming that the Navy might abandon me of its present stations if the personnel is largely reduced?

me of its present stations if the personnel is largely reduced? Admiral Stitt. Yes, sir: we abandoned the New Orleans hospital

st as soon as the station was abandoned.

Mr. OLIVER. So you could not now say what hospitals you might able to turn over to the Veterans' Bureau for their use and thus re expense to the Navy until you first knew just where the men the Navy whom we provide for will be stationed?

Admiral Stitt. Yes, sir.

Mr. OLIVER. In other words, your action would have to follow the ion of the Navy Department in reference to determining what centers of activity would be?

Admiral Stitt. Yes, sir.

Mr. Kelley. You expect to have the \$410,000 supplied by the terans' Bureau for the Hospital Corps another year?

Admiral STITT. I expect that to be supplied and the expenses of ses and medical men.

Ir. Kelley. Of course, the Hospital Corps men are Navy people;
v are not civilians!

Idmiral Stitt. They are Navy people; yes, sir.

SUPPLIES.

Mr. Kelley. How about supplies? Would they be reduced if the

Navy were reduced?

Admiral STITT. Yes, sir. For supplies we are only asking \$700,000, which includes the special diet on ships and at stations. Now, the biologicals, taking up the statement we have furnished you, amount to \$100,000, and they include such items as serums and vaccines. We have no stock of biologicals on hand; that is, we just buy as we have to send them out, because they must be absolutely fresh, and we can never tell about the amount of biologicals which will be required. There may be an epidemic of smallpox, as we have had during the last year in Haiti, and so on, which will bring great demand for biologicals, so I do not think we could safely consider less than \$100,000 for them. It may be we will be fortunate and then we can turn back whatever money we do not use, just as we have done this year and the prior fiscal years.

Mr. Byrnes. How much do you expect to spend for biologicals

this year?

Admiral STITT. It is a matter that depends on how much diphtheria we have, how much cerebrospinal meningitis we have, and how much vaccination we have to do for smallpox.

Mr. Byrnes. Do you know how much you have spent in the seven

months?

Admiral STITT. \$67,000 in the first two quarters. We have had to vaccinate a lot for smallpox on account of its presence in Haiti and Santo Domingo.

Mr. OLIVER. In making your estimate for next year, where are the hospitals located that you now contemplate will be maintained?

Admiral Stitt. I will furnish a list for the record.

(The list referred to follows:)

United States naval hospitals within the continental limits of the United States Portsmouth, N. H.: Chelsea, Mass.: Newport, R. I.: New York, N. Y.: League Island, Pa.: Washington, D. C.: Annapolis, Md.: Norfolk, Va.; Charleston, S. C.: Parris Island, S. C.: Key West. Fla.: Pensacola, Fla.: Great Lakes, Ill.: Puget Sound, Wash.; Mass Island, Calif.: San Diego, Calif.: total, 16.

United States naval hospitals without the continental limits of the United States St. Thomas, Virgin Islands; Pearl Harbor, Hawaii: Guam; Canacao, P. I.; Yokoham

Japan total 5.

Admiral Stitt. There are two reasons why I feel our revenues me First, in 1914 it was provided that if a man got an honorab discharge all of his fines and forfeitures would be restored to him; and if a man was discharged for bad conduct, provided he had been coun martialed during his enlistment, one-half of the fines and forfeiture were to be returned to him. The auditor has not settled the amount of the fines and forfeitures for a period of four or five years, so we not know where we stand, but we do know our receipts are going be very much less on account of returns to men who get an honors ordinary discharge. Then, Mr. Denby signed something the other d that is going to further reduce our income from fines and forfeiture that was to the effect that to save "Pay of the Navy," when a me was being court-martialed they were simply to reduce him in rating, which, of course, would have the effect of cutting his prinstead of providing for fines and forfeitures, so we feel that is got to cut our income very much. The Judge Advocate General told

id not know how much that would reduce our revenues, but he ight it would reduce them materially.

r. Kelley. This fund is dependent very largely on the size of the sted force?

dmiral STITT. Yes, sir.

r. Kelley. So if we cut the force it would cut this fund next year? dmiral Stitt. It goes automatically, sir.

RECEIPTS FROM VETERANS' BUREAU.

- r. Kelley. How much do you get a month from the Veterans'
- r. Joiner. We have received this year \$644,000.

r. Kelley. Up to this time?
r. Joiner. Yes, sir.
r. Kelley. That is on account, is it?

r. Joiner. Yes, sir.

r. Kelley. They do not pay in advance?

r. Joiner. No, sir.

r. Kelley. You render your bills and they have paid you that

h in eight months?

r. Joiner. Yes, sir.

HOSPITAL FUND.

r. Oliver. I would like to have the admiral very briefly state t the hospital fund is used to pay and what the fines and forire fund is used to pay.

dmiral STITT. We take the amount out without regard to the ce of income, whether the 20 cents a month or from fines and

r. OLIVER. But I mean what are the proper charges against the pital fund and what are the proper charges against the fines and eitures fund ?

dmiral Stitt. They are one thing.

r. OLIVER. Then what are the proper charges?

dmiral Stitt. All charges in connection with taking care of our pitals, subsistence, maintenance of the hospitals, with the excepof the civilian employees, who are cared for under the Medical artment, and some minor expenditures under contingent; but tically all of the expenses of the upkeep of our hospitals.

r. OLIVER. Is this fund used to supplement the appropriation

nake to keep the hospitals in operation?

Imiral Stitt. As I say, it bears the expense of running the hoss with the exception of the appropriation for the civilian em-

r. Kelley. We do not make any appropriation for repairs? Imiral Stitt. No. sir. We have asked you for two years to r us about \$350,000 for repairs, but your committee thought it d be best to let the hospital fund bear that expense.

. Kelley. Coming back to the question I asked a while ago, 644,000 which you have received is at the rate of \$1,104,000 for Now, about what balance did you have on hand in the tal fund on the 1st of last July, or whatever date you may have? Admiral Stitt. On January 31, 1922, it showed an overobligat of \$2,092.639.09; at the present time we know, from investigat

the matter, that the overobligation is only \$1,690,919.32.

Mr. Kelley. Leaving the overobligation end of it out—beca I am not quite clear in my mind what you mean by that—you tell us how much money you had on hand on the 1st of last July this fund. Doctor Gibson, you can tell us that, can you not?

Doctor Gibson. No; I do not recall the Treasury balance, but a

overobligations were more than \$1,600,000.

Mr. Kelley. Can you estimate, in the absence of accurate information, and then put it in accurately? I would like to know about at this moment.

Mr. Joiner. The Treasury balance was \$314,098.04.

Mr. Kelley. That was the Treasury balance in this fund on the date?

Mr. Joiner. Yes, sir.

Mr. Kelley. If you augment it by \$1,104,000 you have \$1,372,% in this fund for this year?

Mr. Joiner. Yes, sir.

OVEROBLIGATIONS.

Mr. Kelley. Tell me what you mean by "overobligated." Admiral Stitt. That we are that much in debt.

Mr. Kelley. To whom?

Admiral STITT. To "General account of advances," but we feel whave against the \$1,690,000 over \$2,000,000 which will come in from the fines and forfeitures when they are eventually taken up, and the if the Treasury should square our accounts we would at the present time be approximately \$400,000 to the good.

Mr. Kelley. What do you use this fund for besides repairs?

Admiral STITT. It pays for all provisions that are used in the he pitals; it pays for the coal, for the lighting and the heating, practically every expense at a hospital, except we have in the contingation a small appropriation for the care of the grounds; that is, buying seed and flowers, and caring for the trees, and things of that sort.

Mr. OLIVER. Does it pay for medical supplies and surgical instr

ments

Admiral Stitt. The medical supplies and surgical instruments of drawn from this Medical Department fund, sir.

Mr. Kelley. Let me get this straight. The over obligation y

speak of is a Treasury account?

Admiral Stitt. It is a Treasury account; yes, sir.

Mr. Kelley. You have paid the bills?

Admiral STITT. Bills were paid to the extent of \$5,025,000, at then others are outstanding to the extent of \$235,000, maki \$5,260.000; the balance in the Treasury is \$1,538,472, and then the are these others—credits to fund not settled by auditor, \$1,378,8 and estimated credits which have not yet been forwarded to audit \$651,683, making \$3,569,080.

Mr. Kelley. All these over obligations are cumulative from dur the war and back for some little time—they are not your overoble

tions, are they, since you have been in office?

Admiral Stirr. No, sir; they have been coming on.

Mr. Kelley. And undoubtedly they have been paid out of "General account of advances of the Navy"?

tor Gibson. Yes, sir; that money is all due to the general acof advances.

niral STITT. Although there is no appropriation.

Kelley. I understand it now.

Byrnes. You have obligated to the extent of \$5,250,000? niral STITT. No, sir; as it stands on the 31st of January our oligations are \$1,690,919.

BYRNES. Does that include the amount which you estimate you

et from fines and forfeitures?

niral STITT. That amount is in course of settlement by the We feel that we have at least \$2,000,000 which is in the or's office, but has not been adjusted. Byrnes. When will you know that?

niral STITT. As I understand, for some of those accounts, it e from three to five years.

Byrnes. That is rather hopeless. You believe if they would you would have enough to pay these obligations? niral STITT. And probably \$500,000 more.

BYRNES. Upon what do you base that belief? niral STITT. We base that from knowing the amounts that have lowing in from fines and forfeitures in the past.

Byrnes. And judging from that, you believe that you have h to leave you a net balance of \$500,000?

niral STITT. Yes, sir.

BYRNES. But there is no chance of your ascertaining the total nt to which you are entitled from fines and forfeitures because delay in auditing?

niral Stitt. They say that it will, perhaps, be a year and a half

they are a little more rapid in the auditing now.

Kelley. You will have \$268,925 on the 1st of July in cash?

niral STITT. Yes, sir.
KELLEY. If you take in \$1,104,000, that wlll give you \$1,327,-

hich this fund will have during the year?

Joiner. More than that, because we get an estimated revenue 07,000 from the 20 cents, and we also get the fines and fores transferred.

onel Roosevelt. That estimated revenue per month is based w many men?

Joiner. On the actual number of men in the service.

Kelley. That will hold good up to the first of July or there-What would be your estimate of the total revenues for this for the vear?

Joiner. \$1,200,000 in addition to that.

Kelley. In addition to what?

Joiner. \$1,679,000.

Kelley. Where is that coming from—fines and forfeitures?

Joiner. Yes, sir.

Kelley. During the year you will have \$2,879,925 out of you are to care for your buildings and such repairs as you have ke; pay for all of your operating expenses exclusive of the pay Navy?

niral Stitt. Yes, sir.

JOINER. And the civilian employees.

KELLEY. What does it include?

Admiral Stitt. It includes the provisions that we purchase, the coal, all the paints, everything in repairs to buildings, every as penditure that the hospitals have other than the pay of the officers nurses, and hospital corps men, and civilian employees, medicine surgical dressings, and things of that sort. That runs over \$2,000 day for patients subsisted.

Mr. Kelley. Into what fund does the allowance you receive from

the Navy for the commissary go?

Admiral Stitt. That goes into the naval hospital fund.

Mr. Kelley. Would that increase this estimate?

Admiral STITT. No; decrease it to the extent of the average daily subsistence loss which amounts to over \$2,000.

Mr. Kelley. You take out of this fund the difference between what it costs to subsist your patients and what the Navy pays you!

You reimburse us 75 cents in the present Admiral Stitt. Yes, sir. fiscal year whereas it costs us about \$1 a day. You reimburse us for a Hospital Corps man only 50 cents a day, but he eats the same food that the patients do, so we lose 50 cents a day on every Hospital Comman.

Mr. Kelley. All of this loss and the repairs come out of this fund!

Admiral Stitt. Yes, sir.

Mr. Kelley. Suppose by some line of legislation we should wipe out the bookkeeping transaction at the Treasury and start afresa would the receipts that normally flow into this fund from different sources, fines and forfeitures and the allowances made by the Navy, take care of the situation?

Admiral Stitt. I think it would if the revenues from fines and forfeitures amounted to over a million and hospital tax to about one

quarter million a year as they do to-day.

Mr. JOINER. It would not if you should wipe it out at present with

these reductions that are now in effect.

Secretary Denby. How much do you estimate that it would be! Mr. JOINER. I have no estimate. The source of revenue would in very materially reduced and we would not have any real revenue.

Mr. Kelley. That is because of this order of the Navy Department

introducing a new element of uncertainty?

Mr. JOINER. Yes; and the former one about returning all fines and

forfeitures if they get an honorable discharge-

Mr. Kelley (interposing). I imagine the Navy Department in making the orders did not take into account the effect they might have ?

Secretary DENBY. I think they did not. It is a double arrange

ment, and very serious.

Mr. Kelley. Would it be possible to make any estimate of what it cost last year?

Mr. Joiner. No, sir.

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Secretary Denby. Have you any way of showing what the fine and forfeitures amounted to as the result of courts-martial general!

STITT. It is back four or five years; we know what it trea to in 1916.

In 1916 it amounted to \$520,000.

you really do is to pay your losses on sub rund \$

Mr. Kelley. As long as the Veterans' Bureau contributions come and are put into this fund you would not have any difficulty about ying for making the repairs?
Admiral STITT. No, sir.

Mr. Kelley. If we take care of the present, possibly the Secretary the Navy may reconsider this if it becomes embarrassing or at ast advise us in time so that we can make an appropriation to cover w deficiency.

Mr. OLIVER. Was it an administrative order that authorized the

syment of fines and forfeitures to this fund?

Doctor Gibson. That is a matter of law.

Mr. OLIVER. How could the Secretary, by his order, change the

Doctor Gibson. He has not. The Secretary has directed that cases of general courts-martial the loss of pay shall be calculated the lowest pay of the rating, bringing a seaman from \$70 down to 23, perhaps, but we still get the reduced pay as the law provides, its order provides that a man forfeits \$23 instead of \$70 from "Pay" the Navy," and the naval hospital fund suffers the loss.

Mr. OLIVER. It reduces the fine?

Doctor Gibson. Yes, sir.

Mr. Byrnes. And "Pay of the Navy" is only charged up with \$23 stead of \$70?

Mr. Joiner. The amount credited to the hospital fund.

CONTINGENT, BUREAU OF MEDICINE AND SURGERY.

Mr. Kelley. For "Contingent, Bureau of Medicine and Surgery," ou had \$500,000. You are asking for how much now? Admiral STITT. \$435,000.

Mr. Kelley. In case the Navy is reduced, could we reduce this

propriation any?
Admiral Stitt. That appropriation is one which at different times is year has been reported as having a deficiency, but we have been ble to show a bookkeeping result. Mr. Denby has looked at me hen it has come up in council and it was stated we had a deficiency ider the contingent appropriation. We have only saved it by not struction. We have curtailed those funds. Many things have ought up the expenditures so that I do not believe there can be a duction to any extent by reducing the number in the Navy. For stance, the expenditure for dental work that has been done where Navy dentist has not been available and for medical attention iere a naval medical officer has not been available. We have our timates by different headings of that sort.

BOOKS AND STATIONERY.

Mr. Byrnes. Tell us how you get \$50,000 for books and stationery. Admiral Stitt. We have asked for \$25,000 for books. Those are medical books. We have to give the men recent editions of dical books so that they can keep up with the present practice. hink one of the most important things, as important really as gical instruments or books, is to furnish the medical officers on ps and in the hospitals with latest editions.

Mr. Byrnes. Did you spend \$50,000 for that purpose?

Admiral Stitt. \$25 000 for books, \$24,000 for stationery, and for

the binding of journals, \$1,000.

Mr. Byrnes. In other departments we have found that we could make a reduction in the stationery for the next fiscal year by reason of the reduction in the cost.

Admiral Stitt. We have been writing and writing-

Mr. Joiner. The hospitals have been spending \$1,000 to \$1,200 a

quarter for stationery, and we reduced it.

Mr. Byrnes. I know that in the hearings upon the Interior Department bill we had the representative of the Printing Office—Mr. French will remember—and he told us as to stationery that we would be justified in figuring on a 15 per cent reduction, as I recall.

Mr. French. Yes; that is right. Mr. JOINER. We have made almost a 30 per cent reduction in what we were spending before.

Mr. Byrnes. The year before; but what are you spending this

year—\$50,000?

Mr. Joiner. We are not spending \$25,000 for books this year. We are spending more for stationery and less for books.

Mr. Byrnes. How much for stationery?

Mr. Joiner. \$35,000 for stationery and \$15,000 for books.

Mr. Byrnes. And you propose to spend more for books next year! Mr. Joiner. Yes, sir.

Admiral Stitt. We can save on one item in this contingent fund and in another item we are obliged to spend more money.

Mr. Kelley. You have reduced the estimate \$65,000 from the appropriation last year?

Admiral Stitt. Yes, sir.

Mr. Kelley. You have some new language, the item bringing home remains of officers?

Admiral Stitt. Yes, sir.

BRINGING HOME REMAINS OF OFFICERS, ETC.

Mr. Kelley (reading):

The unexpended balance of the appropriation "Bringing home remains, etc., Nav. Department, 1921–1922," contained in the naval appropriation act approved June 4. 1920, or so much thereof as may be required, and for the same objects specified there is continued and made available for the fiscal year ending June 30, 1923.

How much of a balance is there in that fund?

Admiral STITT. \$206,396.20.

Mr. Kelley. That is the Treasury balance of this fund?

Admiral Stitt. Yes, sir.

Mr. Kelley. That is as of January 1. How much do you estimate you will spend out of that by the end of the year?

Admiral Stitt. About \$65,000.

Mr. Kelley. You are asking us to reappropriate \$141,000.

Admiral Stitt. We put in reserve \$67,222. Mr. Kelley. You want that reappropriated?

Admiral Stitt. Whatever balance may remain over that, which amounts to about \$65,000.

Doctor Gibson. You made no appropriation under this title last year, you just continued it for a year.

Mr. Joiner. \$65,000 not considering the \$67,000 which we have n reserve.

Mr. Kelley. Where is that?

Mr. JOINER. That is in the Budget.

Mr. Byrnes. You had a total of \$65,000 and \$67,000. How about

he \$67,000 put in reserve; how do you arrive at that figure?
Admiral STITT. They just asked what we could safely put in the

eserve.

Mr. Byrnes. What became of the \$67,000?

Admiral Stitt. It will go back into the Treasury.

Mr. Byrnes. Will it go back?

Admiral STITT. We have felt that that amount was returned to he Treasury.

Mr. Byrnes. I hope you are right. There will be \$65,000 still inexpended on July 1?

Admiral Stitt. Yes, sir.

Mr. Kelley. Do you need this \$65,000 next year for that pur-

Admiral Stitt. We can never tell. There may be an epidemic in Constantinople and a lot of deaths there.

Mr. Kelley. What was the usual amount appropriated for this ourpose prior to the war?

Doctor Gibson. Before the war, \$32,658.

Mr. Kelley. Probably transportation is a little higher? Admiral Stitt. It is. When we send the body of a man who dies n one of our hospitals 500 or 1,000 miles or even across the coninent, we pay all the expenses.

Mr. Byrnes. Your expenditures are higher now?

Admiral Stitt. Yes, sir.

Mr. Byrnes. You want \$65,000 to be reappropriated?

Admiral Stitt. Yes, sir.

Mr. Byrnes. And let the rest go back into the Treasury?

Admiral Stitt. Yes, sir.

CARE OF HOSPITAL PATIENTS.

Mr. Kelley. The next item is, "Care of hospital patients." You have \$100,000 for this year and how much are you asking for next year?

Admiral Stitt. \$85,000.

Mr. Kelley. That is for hospitals other than naval hospitals? Admiral STITT. Yes, sir. We are paying the Army for the care of our naval tubercular cases in their hospital at Fitzsimmons, near Denver, varying amounts, about \$3.10 a day.

Mr. Kelley. What is the monthly expenditure for this running

Admiral STITT. It is not very high just now because we only have about 35 patients there at the present time, but any one entering the Navy after the 9th of February does not come under the War Risk Compensation Act, so that we will have to take care of those people; we can not turn them over to the Veterans' Bureau for \$80 lisability, hospital care —they do not come under that —so the Navy rill have to bear the cost of treatment of those people entering the ervice after February 9. Pensions would be open to them, but the

pension has been rather small and has not been sufficient to support a man with tuberculosis. Of course, the War Risk compensation at present is \$80 a month for total disability plus hospitalization. We feel that he is better off under the Veterans' Bureau. When we can no longer turn them over to the Veterans' Bureau we feel that we must keep those men for a reasonable time and give them every opportunity to get in good condition.

Mr. Kelley. You do not intend next year to have any tubercu-

losis hospital of your own? Admiral Stitt. No, sir.

Mr. Kelley. Those patients from the Navy not eligible for admission into the war risk hospitals must be carried in this item?

Admiral Stitt. Yes, sir.

Mr. Kelley. How many will there be?

Admiral Stitt. That depends on the amount of recruiting after February 9, when the Sweet bill stopped the benefits. Those entering subsequent to that time we will have to look after. on the amount of recruiting and the development of tuberculosis. Also if a man on detached duty or recruiting or anything of that sort is taken ill we put him into a civil hospital, provided there is no naval hospital near, and that hospital may charge \$5.50 or \$6.

Mr. Kelley. Have you any idea how many there would be of that

kind?

Admiral STITT. No; it would be impossible to estimate, because it is like an epidemic.

Mr. Kelley. That is why we carry an item like this?
Dr. Gibson. It runs up pretty high. There were 3,000 marine lards out with the mail. They were scattered all over the United guards out with the mail. States. Wherever injured Wherever injured or sick and hospitalized we paid for it out of this appropriation.

Mr. Kelley. Did we have a fund for this purpose before the war!

Doctor Gibson. No, sir; it originated in the war.

Mr. Kelley. You think we will have to carry that item next year! Admiral Stitt. Yes, sir; particularly in the case of tuberculosis patients.

Mr. Kelley. Because you have no tuberculosis hospital?

Admiral Stitt. Yes, sir.

Mr. Kelley. These are in hospitals other than those conducted by the Navy?

Admiral Stitt. Yes, sir.

Mr. Byrnes. Have you any arrangement as to what they charge

Admiral Stitt. The Army has a fine, large hospital at Denver which is larger than they need, and they say they can easily give us 200 beds in that hospital. We would have never given up or tuberculosis hospital had it not been that the Army said they but plenty of room for both services.

Mr. French. Generally speaking, where you have a given expense of this kind in connection with either the Army or the Veteran

Bureau hospitals-

Admiral Stitt (interposing). So far it has only been in Army hospitals, that is, tuberculosis.

CREASE IN SALARY OF CHIEF CLERK BUREAU OF MEDICINE AND SURGERY.

Mr. Kelley. The next item is "Salaries, Navy Department," nd you want to increase the salary of the chief clerk from \$2,250 \$3,250. I may say, Admiral, the Appropriations Committee had n understanding that no salaries should be increased in any of these ills this year, so we might just as well pass that by. We do that as a all departments so as to make it uniform. There is a sort of sadjustment of salaries going on.

Admiral STITT. This was a matter which was taken up in the ouncil hearing, as I understand it, for the salaries of the chief clerks the various bureaus of the Navy Department to increase their

ompensation about \$1,000.

Mr. Kelley. I have not any doubt as to that.

Mr. Byrnes. If any salaries are increased your recommendation ill be given careful consideration.

Colonel ROOSEVELT. It is justified, I know.

Mr. Kelley. We want to treat all departments equally, and with he reclassification bill coming on we thought we would not interfere ith these salaries pending that.

TEMPORARY EMPLOYEES.

Mr. Kelley. The next item is for temporary employees. Your urrent appropriation for this purpose is \$40,000, and your estimate ppears to be \$37,000.

Doctor Gibson. The appropriation is \$40,000 this year and the

stimate for next year is \$37,000.

Mr. Kelley. If the Navy is reduced, will it not be possible to re-

luce this amount a little?

Admiral STITT. Mr. Chairman, we are handling the records of about 800,000 people of the war period in our bureau. We are doing he same work in the bureau of Medicine and Surgery that the Adjutant General's office is doing in connection with the men who served in the recent war, so that our main work, or three-fourths of the work of our bureau, is connected with claims, or the furnishing of medical records in connection with claims for compensation. have been able to answer those calls for medical records solely by loing things that we had not the right to do, but we had to do it because we knew if we did not furnish those medical records upon which they based claims for compensation, it would mean a delay of two or three months. Therefore, we put in Hospital Corps men to Jelp. We put in five Hospital Corps men, and we told the Veterans' Bureau that we could not furnish the records promptly, but they aid, "You must give us those records that furnish the information ight away." We have had six of their clerks, and, in addition to hat, we have vocational training people there to assist in the work. Ve have really had about a dozen clerks more than we are supposed) have.

Mr. Kelley. There was a temporary necessity for it, and the mporary necessity is still in existence?

Admiral Stitt. Yes, sir.

Mr. Kelley. Since it is necessary to supply these medical records to the Veterans' Bureau, I suppose you could not get along with fewer next year?

Admiral STITT. Absolutely not.

Mr. Kelley. Is there anything else you wish to say to the committee?

Admiral STITT. I think it would be interesting to show you the amount we have spent for things that really are not exactly for the Navy, but there is no way to avoid it.

Mr. OLIVER. You have to do a certain amount of missionary work! Admiral STITT. Yes, sir: missionary work. For instance, we spent last year \$96,826.31, or nearly \$100,000, for medical and surgical supplies in Haiti and San Domingo.

Mr. Kelley. For the people there?

Admiral STITT. Yes, sir. We have talked the matter over with the Secretary, and he says that we should do everything we can.

Mr. Kelley. That is to prevent the spread of disease?

Admiral STITT. Yes, sir. They are absolutely indigent. They have not a cent of money, and it is humanitarian work. That applies particularly to the outposts that are well away in the back part of the country.

Mr. Byrnes. Out of what fund do you get that money?

Admiral STITT. It is paid out of the Medical Department appropriation.

Mr. Kelley. I suppose you do that upon the theory that you are preventing the spread of disease among our own people?

Secretary Denby. Yes: we have the responsibility, and we must protect them. We must prevent the spread of contagious disease.

Mr. Kelley. We are very much obliged to you, Admiral, for your

statement.

Tuesday, March 14, 1922.

NAVAL ACADEMY.

STATEMENTS OF REAR ADMIRAL HENRY B. WILSON, SUPEINTENDENT, UNITED STATES NAVAL ACADEMY; COMMANDER I. C. KIDD, AID; AND COMMANDER T. Def. HARRIS, SUPPLY CORPS.

Mr. Kelley. We have with us this afternoon the Superintendent of the Naval Academy, Admiral Wilson, and his assistants. Admiral, we will be glad to have you make any general statement that you would like to make about the academy before we take up the needs

of the academy in detail.

Admiral Wilson. Mr. Chairman, I assumed duty as Superintendent of the Naval Academy on July 5, 1921, and, therefore, had not much to do with making up the estimates for the coming year, but since that time I have given careful attention to the needs of the Naval Academy, have gone over the estimates, and have gone over the amount as proposed in the Budget, and, in speaking of the needs of the Naval Academy. I am prepared to state the amounts under the several heads which I think are necessary, having in view the upkeep of the Naval Academy and the need for strict economy.

FOR GRADUAL REDUCTION IN NUMBER OF STUDENTS ENTERING.

Mr. Kelley. In considering the situation at the academy, I lagine you have assumed that there will be no change in the

imber of midshipmen who will enter this coming year?

Admiral Wilson. Yes, sir. I have considered that the number enring this year would be in accordance with the present law, as all e appointments have probably been made by now; but I have also in mind what might come in the future, that is, a possible reaction.

Mr. Kelley. But that will not affect the appropriations for this

Admiral Wilson. It affects them to the extent that I would rather e a gradual reduction by reducing some this year then to have it as sharp reduction, which would mean the same thing, next year.

MAKING ENTRANCE REQUIREMENTS MORE STRINGENT TO REDUCE CLASSES.

Mr. Kelley. Your idea might be to make your entrance requireents for new classes a little heavier this year?

Admiral Wilson. We are not able to make the entrance requireents—

Mr. Kelley (interposing). I mean the physical tests.

Admiral Wilson. We are not able to make the scholastic requireents firmer this year on account of the papers having gone out, it it is the intention of the academic board to be a little more strict its recommendations as to who shall come in. For instance, in the ast they have admitted young men to the Naval Academy with ight deficiencies in one subject provided they have been extraped in other subjects. In passing upon those for the February caminations the other day, the academic board, looking to the iture and to the reduction that will probably come soon, and wishing is reduction to be gradual, was very strict in passing candidates.

Mr. Kelley. So that, as a result of observing a little greater rictness in the entrance tests, you expect to reduce the fourth class

omewhat ?

Admiral Wilson. Yes, sir, the coming fourth class.

Mr. Kelley. But probably not enough to make a great deal of

ifference in the expenses of the Academy for the year?

Admiral Wilson. Not sufficient to make a marked difference, for he reason that the academy is now running over the number that it as regular accommodations for, For instance, Bancroft Hall will rovide for 2,042 midshipmen living two in a room, that being the umber for which the hall was designed, but lately we have, by puting three in a room and in the larger rooms four, carried the number 2,450. For the maintenance and upkeep of the place, there will be quired the same amount for Bancroft Hall, and even if the number reduced to the regular number of 2,042, there could not be much as expense for maintenance, repair, and upkeep.

Mr. Kelley. That is, you will just reduce the number to the nor-

al accommodations?

Admiral Wilson. Yes, sir. The part where the reductions would be made in the Naval Academy, due to a smaller number of midshipmen, would be in the pay and rations, which is not a part of the Naval Academy estimates. I also think that we can gradually reduce some of the teaching staff.

Mr. Kelley. You have made no changes in the salaries in the

estimates?

Admiral Wilson. As I remember the estimates, there is only one and that is in the case of the organist and choirmaster. Then, I have two other cases that I might mention at this time, and ask you to give your consideration to them when you come to them. They involve small amounts.

Mr. Kelley. So that the amount asked for for pay of professors

is on the same basis as last year, practically?

Admiral Wilson. Yes, sir; the estimate is the same, but since you have brought this question up, I will state that I believe the estimates could be radically reduced.

Mr. Kelley. We will take that up when we reach it under the

item of pay of professors.

Admiral Wilson. Yes, sir, then or now.

Mr. Kelley. Are there any other items you have in mind that call for increases !

SALARY INCREASES FOR PHYSICAL INSTRUCTORS.

Admiral Wilson. Yes, sir. Since I have been in the Naval Academy there is one thing that has made a great impression upon me—so much so, that I probably would like to dwell on it for some minutes. That is the case of the instructors in physical training. At the present time, the estimate for instructors in physical training is \$26,700, with each man's pay itemized. These instructors in physical training do much for the Naval Academy—much more than I had any idea of before I came there. They are leaders and develop the midshipmen in a way that is most satisfactory. I would like to have the instructors in physical training grouped under the head of "Pay of instructors in physical training," with an increase of \$9,800 in the amount, making the total \$36,500, and with permission for me to reorganize the department. I am quite sure that the Government gets back from these men many times their cost carried in here, through their developing the youth of the Naval Academy. While on this subject, I would like to say that the supervision of all the physical training at the Naval Academy is not paid for by the Government. Our coaches in baseball, basketball, football, and Government. some other sports are paid for by the Naval Athletic Association, and it amounts to quite a sum. The men I refer to are the men who are there every day of the year. They not only put the midshipmen through the regular schedule of exercises, but they take charge of them in the voluntary exercises, and of the 2,300 midshipmen at the Naval Academy at the present time there are over 1,800 getting this instruction through some form of special sports, to which these men give, not only the scheduled hours to the scheduled exercises but they give outside hours to them. This suggested i lease of \$9.800. I am sure, would enable me to increase the value of that service very much.

Mr. Kelley. How many extra men would that employ?

Admiral Wilson. It is not so much a matter of extra men as it is rearrangement. It involves the same number of men, but I hopé to have one civilian whom I would call the associate director. will be an associate to the officer we have in charge. Then we would have 2 assistants and 11 others, their pay being \$3,900, \$3,100, and \$2,400.

Mr. Kelley. Let us see what your present organization is for instructors in physical training. What was it in 1921?

Admiral Wilson. One sword master at \$1,900, one assistant at \$1,700, one assistant at \$1,500, a head master in physical training at \$2,200, instructors in physical training—one at \$2,100, two at \$2,000, and seven at \$1,900.

Mr. Kelley. Now, what is it that you want to do? Admiral Wilson. I want to have 1 associate director at \$3,900, 2 assistants at \$3,100, and 11 assistants at \$2,400, which would mean an increase of \$9,800. In order to balance that, I have several reductions that would many times over compensate for that increase for physical training.

Mr. Kelley. The amount of this paragraph last year was \$161,600.

How much are you asking for this year?

Admiral Wilson. Taking the item of pay of professors, Naval Academy, when I go through the estimates I will recommend \$761,258.34 for the total under the heading "Pay, Naval Academy."

Mr. Kelley. The increase you propose on account of instructors

n physical training is how much over the present pay?

Admiral Wilson. \$9,800.

Mr. Kelley. You want to strike out the word "men" and insert

the word "man"?

Admiral Wilson. Yes, sir. I do not know what brought that up, out I presume that change was suggested by the former superintend-

Mr. Kelley. I take it that would not be important.

Admiral Wilson. No. sir.

INCREASE OF SALARY FOR CHOIRMASTER AND ORGANIST.

Mr. Kelley. You want to increase the salaries of the choirmaster

and organist at chapel from \$1,700 to \$2,400 \

Admiral Wilson. Yes, sir; the increase for the choirmaster and organist at chapel is because we require an efficient man and one rhose services may be utilized in teaching the midshipmen music ind mass singing, so that they may take it with them to the fleet, r wherever their services may be utilized, for the benefit of the nlisted men. The present salary of \$1,700 is not sufficient to get a nan suitable for this work, and therefore an increase to \$2,400 is sked.

INCREASE OF ESTIMATES 1923.

Mr. Kelley. What is the sum total of your request for this pararaph?

Admiral Wilson. Mr. Kelley, the first paragraph, which is the rgest one of all, has not been considered.

Mr. Kelley. Last year you had \$161,600 for these items in the second paragraph. How much of an increase are you asking this year, including the physical instruction you have asked for!

Admiral Wilson. \$172,100.

Mr. Kelley. That is an increase of \$10,500 under the second paragraph !

Admiral Wilson. Yes, sir.

Mr. Kelley. We will go back to the first paragraph which I overlooked, pay of professors and others. Last year you had \$385,000, and how much are you asking for next year?

Admiral Wilson. \$392,850. That estimate was prepared before

I came to the Naval Academy.

Mr. Kelley. That is an increase of \$7,850?

Admiral Wilson. Yes, sir.

Mr. Kelley. Are you changing the request?

REDUCTION OF INSTRUCTORS.

Admiral Wilson. You asked me a short while ago about the ability to change this appropriation, and I feel it could be cut to a very large extent without interfering with the interests of the Naval Academy. I would not advocate all officer instructors at the Naval Academy any more than I would advocate all civilian instructors. We need some of both to balance the work, but the proportion at the present time, about equal in number, does not, in my opinion. combine efficiency and economy. For this reason, and also because of the probable reduction in the number of appointments to the Naval Academy, I suggest, in accordance with your question to me. that the sum for "Pay of professors and others, Naval Academy." etc., be reduced at least one-half of the estimate. This would be a step toward bringing the proportion of officer instructors to civilian instructors back to what obtained before the war, and I believe such a step would not be hurtful to Naval Academy interests.

USE OF NAVAL INSTRUCTORS IN PLACE OF CIVILIAN.

There is much to be said in favor of using naval officers as instructors at the Naval Academy. In many ways the Navy is an excellent normal school. The routine duties required of naval officers involve a good deal of teaching. Success in the naval profession depends in a considerable degree upon the development of capacity to teach. The advance of naval science, with its attendant processes of change and improvement, demands mental alertness both to grasp new ideas and to instruct subordinates in them. We have shifting enlisted personnel and there are always recruits to be taught new duties and to be instructed in the operation of complicated machinery.

Officers themselves frequently do not appreciate the extent to which their naval experience fits them to become instructors at the Naval Academy. It has not been uncommon for a young lieutenant, on his first tour of shore duty at Annapolis, to be assigned to teach a subject from a new textbook quite different from any he had studied when a midshipman. An officer so placed alongside professors who have devoted years to specializing in the subject is # first inclined to depreciate his ability to teach. He is indeed conconted with obstacles, but, in accordance with his naval training, a bends his energy to overcome them. Then he usually discovers hat the difficulties had been somewhat exaggerated in his own mind, and that he had not appreciated the extent to which experience afloat

and fitted him to become an instructor of midshipmen.

An important advantage that a naval officer has over a civilian n teaching is that, by virtue of rank and experience, he is in a more avorable position to present incentives for midshipmen to learn well he subject matter set before them. Even in nontechnical subjects he value of an essential point can often be illustrated by some apt llusion to service life. Whether the subject is physics, history, or aval science, midshipmen feel that illustrations and explanations of flicers are backed by experience with ships and men. As I see it, access in teaching hinges to a great extent on ability to inspire midnipmen with ambition to learn, and I believe that officer instructors ave a knack for doing this.

The mission of the Naval Academy is not to produce intellectuals scholars but intelligent naval officers, with healthy minds in salthy bodies. Moral, mental, and physical training go hand in and. The intellectual side is not neglected, but character building given particular stress. Discipline and drill are so interwoven ith the academic work as to be part and parcel of it. Here again to experienced officer has the advantage over the civilian instructor. The officer knows the service, realizes that the midshipmen of to-day ill be his brother officers of to-morrow, and therefore contributes to aval Academy work an understanding, cooperative effort which can

a paralleled by few civilian instructors.

The criticism has been made that "it is a pathetic sight afforded v the officer instructor who burns the midnight oil to keep one day read of the lesson which his class is to recite." The inference to be rawn from this is not quite fair. Granted that, for his first year at ast, the officer instructor does have to study his lessons with dilience, does it necessarily follow that his teaching is of inferior quality? he textbook lessons assigned are plenty long enough and contain all tat the average midshipman can be expected to absorb with thorough-I have heard it said that the officer who has to study along ith his class is likely to concentrate on the lesson assigned and make Il use of his experience and judgment to drive into the heads of the idshipmen the essential points in the lesson, whereas the profesonal teacher, being much more familiar with the subject, is likely to aderestimate the difficulties with which the student has to contend ad, instead of clearing them up, may easily be led to elaboration, troducing complexities which leave the student impressed with the perior knowledge of his teacher, but more confused than ever as to hat the lesson is about. It is not unnatural that enthusiasm in a bject should sometimes lead a teacher to go over the heads of his ipils. I do not wish to undervalue the stimulation afforded by arned exposition from a scholar, but I wish to make the point that is is not always an unmixed good, and that the less exhaustive lowledge of his officer instructor is not always an unmixed evil. It has also been said that we are old-fashioned in our methods at

It has also been said that we are old-fashioned in our methods at a Naval Academy. In some respects this is frankly admitted. It as not mean, however, that our minds are closed to new ideas, are constantly on the lookout for new ideas, and adopt them when

we are convinced that they are good. But we believe that the cour is proud of the high standing the Naval Academy has attained as educational institution, and we do not propose to kick down; maturely the ladder by which the academy has mounted to enviable position. For example, the method of teaching called "direct method" aims to supply knowledge in a sort of prediges form, which can be assimilated by the pupil without effort. We not use this method to any great extent at the Naval Academy, believe in the old-fashioned way—"We learn by doing"—and embryo officers will continue to fit themselves for future tasks doing a lot of "hard digging" during their four years at Annapa We try to give the incentive, point the way, and help them over thard spots, but conscientious work on their part is required to rea the goal.

NUMBER OF INSTRUCTORS-CIVILIAN AND NAVAL.

Mr. Kelley. How many professors and instructors have you all gether at the academy?

Admiral Wilson. We have 118 civilian instructors and about t

same number of officer instructors.

Mr. Kelley. What do you think should be the right proportion Admiral Wilson. Before the war we had about three officer structors to one civilian instructor. I think that if this appropriation were cut to about \$150,000 or \$140,000 from the amount it is to-down at the Naval Academy could have the best of what we have a nad have ample civilian instructors to keep the balance; that I Naval Academy would not suffer in the least, and that the total must be of officer instructors and civilian instructors would be reduced

Mr. Kelley. That would mean you would have to let about

civilian instructors go at the end of the year?

Admiral Wilson. No, sir; I think we would have to let about

Mr. Kelley. I was just thinking of the possible moral obligation in letting so many go at once.

ADVISABILITY OF REDUCING NUMBER OF CIVILIAN INSTRUCTORS.

Admiral Wilson. The civil instructors came into the Naval Acemy during the war when officers were doing other work and a not be obtained, and I think, as we are after economy combined efficiency, that we could save a quarter of a million dollars right the I do not think it would hurt the efficiency.

Mr. Kelley. And you do not think it would be an injustice at You think there is plenty of time left so that these people could positions elsewhere? I was just thinking whether or not there we

be ample notice of the change in policy.

Admiral Wilson. Of course, my personal feelings would be entited the professors and instructors at the Naval Academy. I won't to see any of them lose their jobs, because they are all a I was speaking strictly as the superintendent of the Marin coming before you, who are appropriating money shment. It is my thought at a quarter

of officers in p

Admiral Wilson. Yes, sir. It is very probable that we would quire less officers to take the places of the professors who go out. Mr. French. That would be caused by the diminution in enrollent?

Admiral Wilson. No, sir; it would be because the officers at the aval Academy can be utilized to more advantage than the profesors: they can teach more than one subject if necessary, and they in be utilized in the drills.

Mr. French. What period of contract have the professors there

ow? Are they employed from year to year?

Admiral Wilson. Some time ago they were given appointments nat stated that they were appointed for a certain length of time, but understand that is governed entirely by the appropriation of ongress.

Mr. Byrnes. You think you would have no trouble in getting

ficers who would make good instructors?

Admiral Wilson. No, sir. Just now, when we are thinking obout eping our officer personnel until we know there is going to be no ore trouble, it would be a very profitable way to use their services. Mr. Byrnes. I think so, too, if you have no doubt about securing ompetent men; but a good officer may not be a good instructor.

Admiral Wilson. Mr. Byrnes, we have very little choice about ho shall come to the Naval Academy as instructors. If he is an ficer in the Navy and his services are available, he is sent to us, nd I have not first pick of the men in the Navy who come to the aval Academy as instructors.

Mr. Byrnes. Who does select them?

Admiral Wilson. When the Bureau of Navigation finds officers ecoming available on account of detachment from sea duty, they end their names to me. I pass on them, and I pick any one, unless e has something in his makeup which I know personally would not t him to be associated with the midshipmen.

Mr. Byrnes. You will no doubt agree that it is not every man ho has received an education that possesses the gift of imparting

nowledge to others.

Admiral Wilson. Yes, sir; at the Naval Academy we have to agree that to a large extent—that any man who is a commissioned flicer and who has gone through the Naval Academy is good marial to bring back to teach the midshipmen. Although he may ot be the best teacher compared with some civilian instructor, in ne end he delivers as much education to the midshipmen as one ho is just trained in scholastic work, because there are more things nan teaching him his lesson that the officer has to teach a midshipman. Mr. Kelley. It has been my understanding that these civilian inructors were employed through an oral contract, or some sort of nderstanding, that they should remain five years if they were sat-

Admiral Wilson. Well, sir, I do not look upon that as a contract any way. I look upon it like this, that you say to him if he chaves himself and delivers the proper efficiency there will be no ason to disturb him for a certain length of time. Of course, I alize that their tenure of office is in accordance with the appro-

iations by Congress.

Mr. French. What would be the decrease on the basis of the number of midshipmen you will probably have next year?

Admiral Wilson. I do not think there will be any marked dec in the number of midshipmen, because probably the same nu will come in; but I think there will be a moderate decrease di the fact that we must be less kind-hearted in carrying those who not entirely efficient. In the past we have been asked by nume persons to give this man another show and give that man and show, but now that it is the wish of Congress to cut us down a Naval Academy, I do not think we will have as many requests a that line.

Mr. Kelley. About how many of these civilian professors w probably leave, anyhow!

Admiral Wilson. I doubt if any would leave, sir.

Mr. Kelley. It is your opinion, Admiral, that the acac would not suffer at all if the percentage of officer instructors increased, and the only element that enters into that at all w be whether or not a little more notice might not properly be a to the civilian instructors to get out of the positions?

Admiral Wilson. Yes, sir. Mr. Kelley. Mr. Secretary, I should like to have your opinio to the recommendation of Admiral Wilson to reduce the number civilian instructors by from 333 per cent to 50 per cent, and to rep them with officers at the academy for the coming year!

Secretary Denby. I would approve that suggestion, Mr. Chain Mr. FRENCH. In the event of the reduction of the number of ca in the academy, what ratio would the reduction of the member the faculty bear to the reduction of the students, that is. woul bear the same ratio or some other ratio?

Secretary Denby. I understood there would not be any reduct Mr. French. I do not know. I am simply asking that quest putting it in a hypothetical way, so in the event there should be

Admiral Wilson. Yes. sir; it would be about the same. ex that it would be gradual, due to the fact that the entering class one line of subjects to learn and that the older classes have I technical subjects which require officers entirely to teach.

Mr. French. And probably in the more advanced lines one of

or teacher would not have as many pupils?

Admiral Wilson. No. sir. I think the number of pupils to instructor would be about the same. It averages anywhere from to 14, according to the number of instructors.

POSSIBLE RESIGNATIONS OF STUDENTS.

Mr. Byrnes. Is there any disposition on the part of the boy of the upper classes to resign from the academy because of the that they will not be commissioned?

Admiral Wilson. No, sir; I think every one of the first cla

going to stay at least to get his diploma.

. Byrnes. How about the next class? WIL I think the other ones hor that there may e the time comes for t i that qu (agu on be ademy,

to be graduate heard it sugge n view of the

that the senior class was devoted to navigation to a greater extent than the other classes, that his chance of securing a commission was

not good, and that it would be advisable to resign.

Admiral Wilson. I think any young man who has entered the academy and leaves it because he is not going to get a commission makes a great error. What he learns at the academy is good wherever he goes, and he gets a wonderful physical training outside of anything that he may retain from the books.

AMOUNT SAVED BY REDUCING NUMBER OF CIVILIAN INSTRUCTORS.

Mr. Kelley. Do you know, Admiral, how many of the civilian professors at the academy are married men?

Admiral Wilson. I think the majority of them.

Mr. Kelley. You do not know offhand, I suppose, whether they

own homes in Annapolis?

Admiral Wilson. I think most of those to be retained would be those who have families and homes. That is, those who at the academy contribute to the academy other than their teaching. We have instructors who help in athletics, who help in the entertainments, who help in our Naval Academy work. They give themselves to other work besides their regular required routine work, and naturally those men would be the ones that the academy would want to keep, and also the academy would give attention to the length of service.

Mr. Kelley. You could administer this in such a way that those who have homes there, if they were to be let go, would have a little longer time to get ready for the change?

Admiral Wilson. Yes, sir. It is the desire of mine not to hurt

anybody.

Mr. Keeley. If you carry out this policy you can reduce the amount from \$385,000 to what?

Admiral Wilson. \$150,000, I said. Mr. Kelley. Instead of \$385,000?

Admiral Wilson. Yes, sir.

DEPARTMENT OF ORDNANCE AND GUNNERY.

Mr. Kelley. The next item is "Department of Ordnance and

Gunnery": do you recommend any change there, Admiral?

Admiral Wilson. Yes, sir; I recommend a reduction there. The total for the last year was \$20,658. This year we propose \$19,300.56, by a rearrangement of the estimate, going through it and working it out.

Mr. Kelley. That is just a small sum, due to readjustment?

Admiral Wilson. We are saving a little on the readjustment of the details and also the 5-day week.

Mr. Kelley. By a rearrangement?

Admiral Wilson. By a reduction to the 5-day week, and a readjustment of the pay schedule, etc. That is a reduction of \$1,357.44.

DEPARTMENTS OF ELECTRICAL ENGINEERING AND PHYSICS.

Mr. Kelley. The next item is "Departments of Electrical Engineering and Physics."

Admiral Wilson. The sum we have reduced is \$1,468.84, making

the total we want \$17,962.20.

Mr. Kelley. To what is that reduction due?

Admiral Wilson. To the same thing, the rearrangement of the wage schedule and the 5-day week.

Mr. Kelley. What do you mean by the 5-day week?

Admiral Wilson. We are only working five days a week now.

Mr. Kelley. There is a reduction and you would think that the
would make an increase?

Admiral Wilson. No; they only get five days' pay.

DEPARTMENT OF SEAMANSHIP.

Mr. Kelley. The next item is "Department of Seamanship."
Admiral Wilson. There is nothing I can recommend there,
would like to have that sum, \$8,188.08, as it is.

Mr. Kelley. What craft do you require down there for this work Admiral Wilson. We have reduced our craft and enlisted men absolutely to a minimum. I received a letter from the Chief of the Bureau of Navigation the other day commending us for our reduction of the enlisted personnel. We have a receiving ship; we have eight motor boats, subchasers, which take the midshipmen out and teach them ship handling. We have a tug and then we have, probably, rowboats, cutters, that the midshipmen go out in; we have about 20 small sail boats that the midshipmen go out in, and we have two or three steam launches. We have cut everything that utilizes men and fuel down to bedrock.

Mr. Kelley. You ought to try to get rid of the subchasers.

Admiral Wilson. Before the subchasers came we had steam launches. The steam launches were not fast enough to teach the first-class ship handling and going through the tactical formations that we teach them from the books. I know they are expensive.

Mr. Kelley. You have some enlisted personnel?

Admiral Wilson. One chief petty officer in charge of the boats and about three enlisted men. The boats are manned by the midshipmen when they go out. The only thing that costs is for the gas and I recognize that is quite an item. I do not know of any other method by which you could teach the midshipmen the practical part of the work. We teach the theoretical part in the classrooms. They are out every day when the weather is good, commencing now

ENLISTED PERSONNEL.

Mr. Kelley. You run them practically with your enlisted personnel?

Admiral Wilson. All they do is a little upkeep. They are run by the midshipmen themselves. We have a certain number of carpenter mat d machinists who look out for the motor by the sail boats.

As I say, we have been to

r dc to an absolute the Chief of the

re met all :

The Chairman. Could you not teach the midshipmen to do the schanical work without interfering with their scholastic course? Admiral Wilson. The mechanical work is all done during the drill riod. They do not go out during the scholastic periods. That is part of the drill of the first class, the class that is going into the avy to become officers. They take the wheel, take the deck—we we an officer on board each boat—make the signals, etc.

The CHAIRMAN. But they do not overhaul the machinery.

Admiral Wilson. Yes, sir; that is a part of the drill. Every day certain number of midshipmen are down in the machine shop being ught to overhaul the machinery, to make machinery, in the forge id in the blacksmith shops.

Secretary Denby. I think the chairman meant could not the midipmen attend to the boats instead of the carpenter-mates and

achinists?

Admiral Wilson. No. I do not think they could do the carpenter ork and the mechanical work. The number of enlisted men we we we is very few. I do not think we have at the Naval Academy over 10 men outside of the mess attendants who attend to the midshipen's mess hall. We have, I think, 290 Filipino mess attendants. It though that is looked upon as quite a number, I think they conibute much to the efficiency and economy of the Government. If e did not have them paid from the Navy we would have to pay em from the Naval Academy and pay them more and get less ficient people and not be able to control their physical condition. It is now, they are under military discipline and they are kept ean. If a man is physically unfit in the way of any disease he is iminated at once, and I think the total expenditure for mess attendits to attend the midshipmen in the mess hall is much less than it ould be if the Government appropriated the money and hired them om civil life.

PARTMENT OF MARINE ENGINEERING AND NAVAL CONSTRUCTION.

Mr. Kelley. The next item is "Department of Marine Engineer-g and Naval Construction."

Admiral Wilson. We can reduce that item \$6,160.20, making hat we want, \$49,754.12.

Mr. Kelley. How does that reduction come about?

Admiral Wilson. In the same way, the rearrangement of pay, e 5-day week. I would like to say that our records have been pt very carefully and this is from practical knowledge.

COMMISSARY DEPARTMENT.

Mr. Kelley. The next item is "Commissary Department." Admiral Wilson. We have by means of cutting down employees d rearranging things been able to make a saving on the estimate \$35,201.01, making what we ask for, \$203,214.08 instead of what had last year, \$238,415.09.

ENLISTED MEN AS MESS ATTENDANTS.

Mr. Byrnes. How did you make that estimate of \$406.227.9 Admiral Wilson. That was based on civilian mess attend The estimate shows an amount of \$406,000. That is because estimated, by direction of the department, for civilian mess a dants in the messhall. As I have said, I think that it is econ although paid out of pay of the Navy, instead of being paid o the Naval Academy, the total transaction is much more econo and much more efficient and much more for the benefit of the shipmen to let it go as it is.

Mr. Kelley. This would include about how many enlisted

Admiral Wilson. Two hundred and eighty-eight.

Commander HARRIS. The appropriation has been made for cilabor, but never used; for the last two years it has not been because we have been using the enlisted men as mess attend

Mr. Kelley. Is not this the item about which we had some

troversy last year with West Point!

Commander HARRIS. No, sir; that was the ration money. Mr. Kelley. I recollect somebody saving that at West Poin boys paid something toward the help?

Commander Harris. Yes, sir.

Mr. Kelley. At Annapolis you have been paying that?

Commander HARRIS. Yes, sir.

Mr. Kelley. We made the reduction last year in order to equ the difference between West Point and Annapolis and if you p these enlisted men that restores that difference?

Commander HARRIS. No. sir. Last year you did not make

appropriation.

Mr. Kelley. No.

Commander HARRIS. It has always been in the estimate.

Mr. Kelley. I know. The year before last there was an ar priation made of \$397,000?

Commander Harris. Yes, sir.

Mr. Kelley. And this last year we reduced it to \$238,000 bec the boys had to pay it themselves to equalize the difference bet West Point and Annapolis?

Commander HARRIS. Yes, sir.

Mr. Kelley. If we put in the 288 enlisted men, as Admiral W wants to do, then that will restore the difference?

Commander HARRIS. We had the enlisted men last year. Mr. Kelley. Was it not the intention that the boys should

these waiters? Commander HARRIS. No, sir; never.

Mr. Kelley. What was it?

Commander HARRIS. They had kept a certain number of help

there, something like, I believe, 50 or so.

Mr. Kelley. I remember the commandant of the Military A emy, when he was down here, made a list of the advantages that boys at Annapolis had over the boys at West Point, and this was

Commander Harris. That was one. We explained that we

other disadvantages.

Mr. Byrnes. And that one offset the other.

Mr. Kelley. The point is that the West Point boys pay for such number of mess attendants as are used up there, while you use

enlisted men. That is the fact, is it not?

Commander HARRIS. To a certain extent they have, sir; but, in addition, they have to hire a certain number of waiters, I believe. It was under the ration allowance item that that question came up.

Mr. Kelley. No; there was a question of mess attendants, or the

question of paying for waiters.

Commander Harris. As Mr. Byrnes has said, it was a question of West Point having some advantage and of our having some advantages, and, as a result of the hearing, I think you figured that one about counteracted the other.

Mr. Kelley. We made a reduction from \$397,000 to \$238,000 for

some reason.

Commander Harris. I think you realized that we had these enlisted men as mess attendants, and for that reason we did not use the money, but turned it back. As long as we had not previously used the money, last year you did not appropriate it. The year before we had enlisted men for mess attendants and did not use that noney, but we turned in a surplus.

Mr. Kelley. The year before you had \$250,000 and had enlisted men. Last year, or in 1921, you had \$395,000 and had civilian nelp. Does this rearrangement require any change in the language?

Admiral Wilson. No, sir.

The CHAIRMAN. I have been in the House to find out what the Army bill carries in this connection for the students at the Military Academy. The bill provides that the students shall pay for all the mess attendants out of their ration allowance. For the current fiscal year the ration allowance is \$1.08 per man, but in the present bill that allowance has been reduced to 75 cents per man upon the recommendation of the War Department, and the students are to pay for the mess attendants out of that 75 cents per day per man.

Admiral Wilson. I do not see how thay can do it.

The Chairman. That was the recommendation of the War Department, and the committee accepted their recommendation. In addition to that they say that your people down at the Naval Academy have a milk allowance.

Mr. Kelley. But the milk costs the Naval Academy boys twice as much as the West Point people pay for their milk.

The Chairman. Anyway, out of the 75 cents ration allowance, they

are to pay for all the mess attendants.

Mr. Kelley. Now, this amount of \$203,214 represents the expense of the commissary department, exclusive of 288 enlisted men who serve as waiters.

Admiral Wilson, Yes.

Mr. Kelley. The question for us to consider is whether these men should be paid for by the boys or by the Navy Department. You lave this proviso:

Provided, That no employee paid under the provisions of this paragraph shall receive a salary in excess of \$2,400.

Admiral Wilson. I think that must have been put in at some time o catch up some individual.

Mr. Kelley. You do not care for that?

Admiral Wilson. I should like to see the whole provision strict out, because you put it up to the Superintendent of the Naval Ac emy to run the institution, and a superintendent who has decreathe amount of the estimates \$350,000 is not going to pay anybody extravagant salary. This is evidently for some one individual, a somebody wanted to give him more money, but I will not give hany more than everybody else doing the same kind of work receiv

Mr. Kelley. You are not especially interested in that change

language?

Admiral Wilson. I think you had better let it go by and I w look into it further at some other time.

BUILDINGS AND GROUNDS.

Mr. Kelley. The next item is for the Department of Buildin and Grounds. What are your recommendations there!

Admiral Wilson. There is no change in that item.

Mr. Kelley. This item provides for one messenger to the supintendent, at \$1,001.60, and necessary building attendants. Y have the same number of attendants that you had last year?

Admiral Wilson, Yes, sir.

Mr. Kelley. How many is that?

Commander Kidd. One hundred and fifty-four. Mr. Kelley. And you pay the same wages!

Commander Kidd. The Navy Department changed the waschedule in September and reduced the pay, but when they reduce the pay they also provided that after six months employees show receive the maximum rate of pay. Before that order we were regiving the maximum rate of pay and thus kept within the appropriation. This maximum rate of pay feature makes it necessary have the same amount as this year for building attendants.

Mr. Kelley. How much is that in all for the civil establishmen Admiral Wilson. The sum total of that would be \$761,958.34

think.

Mr. Kelley. All right; we will verify that.

CURRENT MISCELLANEOUS EXPENSES.

Mr. Kelley. For current and miscellaneous expenses, you he \$110,000 for the current fiscal year, and you are asking the sa amount for the next fiscal year?

Admiral Wilson. Yes, sir; the same amount.

Mr. Kelley. You had that amount of \$110,000 in 1920, in 1921 and in 1922, and you had \$89,000 in 1919. Of course, the incress amount was due to the increased attendants.

Admiral Wilson. As they come down, we will reduce that

Mr. Kelley. Have you a detailed statement showing what items amount to?

Commander Kidd. Yes, sir.

. Kelley. You may put that in the record. Kidd. I will do so.

Current and miscellaneous expenses for fiscal year 1921.

'ext and reference books for use of instructors	\$2, 377. 37
Stationery, blank books and forms, models, maps, and periodicals	17, 113. 68
stationery, blank books and forms, models, maps, and periodicals	19, 211. 18
Expenses of lectures and entertainments, not exceeding \$1,000, including	•
pay and expenses of lecturer	0.00
"hemical philosophical apparatus and instruments, stores, machinery,	
tools, fittings, apparatus and materials for instruction purposes	69, 351. 33
lotal appropriation	110, 000. 00
lotal expenditures	
Balance	1, 946. 44

Mr. Kelley. There must be some reduction in the cost of material ike stationery, blank books, forms, maps, apparatus for physical

raining and athletics, etc.

Commander Kidd. This item is based upon the expenditures of ast year, or this estimate was based upon those expenditures, and we spent practically the entire amount last year. I have an itemized statement here.

Admiral Wilson. If we do not spend it, we will turn it back into the Treasury. We can estimate the other items more accurately

Decause they consist mostly of help.

Mr. Kelley. In a case where the item is for purchasing material rou must take into account the natural fall of prices, which has been quite considerable. How much the fall has been on this class of goods I do not know, but paper must be considerably cheaper.

Commander Kidd. The actual expenditures last year were

\$108,052.56, and there was turned back the sum of \$1,046.44.

STATIONERY.

Mr. Kelley. What part of this is stationery?

Commander Kidd. Stationery, blank books, forms, maps, periodcals, etc., amounted to \$17,113.68; reference books for the use of nstructors amounted to \$2,377.37; apparatus and material for instruction in physical training and athletics amounted to \$19,211.18.

CHEMICALS AND PHILOSOPHICAL APPARATUS AND INSTRUMENTS.

The amount for the expense of lectures and entertainment we did not spend last year, but we will use it this present year; and the tem of chemicals and philosophical apparatus and instruments, nachinery, tools, fittings, apparatus, and material for instruction purposes, amounted to \$69,351.33.

Mr. Kelley. That is the big item?

Commander Kidd. Yes, sir.

Mr. Kelley. What about the price of chemicals and philosophical

apparatus?

Commander Kidd. For the buying of this material, requisitions are submitted to the department, and it is then purchased through the department on regular orders, the lowest bidder furnishing the material.

Mr. Kelley. You do not know from an examination of the bills how the prices are running?

Commander Kidd. No. sir; I do not know.

Mr. Kelley. You do not know whether the prices on that material nave been reduced, or not?

Commander Kidd. No. sir.

Mr. Kelley. If we should find that there was a considerab reduction in the price of chemicals, we could reduce this item pr portionately!

Commander Kidd. Yes, sir.

Admiral Wilson. You can make that item \$100,000. We wi do our best on \$100,000.

PURCHASE, BINDING, AND REPAIR OF BOOKS.

Mr. Kelley. For the purchase, binding, and repair of books for the library, your current appropriation is \$2,500, and you are asking the same amount for the next fiscal year!

Admiral Wilson. Yes, sir; and that is none too large.

EXPENSES OF BOARD OF VISITORS.

Mr. Kelley. For the expenses of the Board of Visitors to the Navi Academy, you estimate \$3,000, which is the amount of the curren appropriation. Do you spend that amount each year !

Admiral Wilson. Yes, sir.

CONTINGENCIES FOR SUPERINTENDENT.

Mr. Kelley. For contingencies for the superintendent of the academy, you estimate \$3,000, which is the amount that has been appropriated for a long time.

Admiral Wilson. Yes, sir.

CONTINGENCIES FOR COMMANDANT OF MIDSHIPMEN.

Mr. Kelley. For contingencies for the commandant of midship men, you estimate \$1,200, which is the amount of the current appr priation.

Admiral Wilson. We need that amount.

Mr. Kelley. That makes in all for current expenses-

Admiral Wilson (interposing). There is a reduction of about \$10,000, making the amount \$109,700.

MAINTENANCE AND REPAIRS.

Mr. Kelley. For maintenance and repairs, your estimate \$1,105,000, which is the amount of the current appropriation.

Note. In connection with this appropriation, I wish to include in the record a part of my remarks, a letter written by me to the Chief of the Bureau of Navigati on October 28, 1921.

UNITED STATES NAVAL ACADEMY, Annapolis, Md., October 28, 1921.

From: Superintendent. To: Bureau of Navigation. Subject: Budget estimates.

Reference: Bureau of Navigation's first indorsement, N-4 LD-G, dated October 1 1921.

Inclosures: Three.

1. In reply to reference noted above, the following information regarding the Nav Acad v is herewith submitted:

Bni	c of, to July 1, 1921	areas.	\$15,089,996
	W		39, 600
	••••••	-	495, 510,
	· · · · · · · · · · · · · · · · · · ·		15, 754, 947.
		(0)	

2. Maintenance and repairs estimate for 1923 (exclusive of commutation of quarters bandsmen), is \$1,200,000, which is 7.6 per cent of the original cost of the structures.

3. Interesting data concerning the Naval Academy (116 major buildings and arters not including such smaller structures as garages, etc.)

Bancroft Hall: There are 16,000 lineal feet of corridor, 886,306 square feet of floor

ace, and 1,806 rooms.

Docks: Santee Wharf, reinforced concrete structure on concrete piles, wood block or, 36,316 square feet. Reina Mercedes Wharf, timber structure on wood piles. ,**3**00 square feet.

Sea wall: Masonry, 10,770 lineal feet; timber, 700 lineal feet.

Bridge—over Dorsey Creek: Reinforced concrete structure on concrete piles, 5,360 Lare feet of roadway. Steel plate girder draw span with wood deck, 2,640 square ≥t of roadway

Roads: Paved, 9,470 lineal feet; unpaved, 29,080 lineal feet. Walks: Paved, 43,650 lineal feet; unpaved, 3,000 lineal feet.

Railroad tracks, 4,350 lineal feet.
Outside piping: Salt water (fire and flushing), 25,500 feet; fresh-water supply, O00 feet; fresh-water suction, 3,000 feet; fresh-water air lines to artesian wells, 2,400 t; hot-water lines, 6,015 feet. Steam lines: Lead lines, 17,200 feet; return lines, 377 feet; sewers, 28,600 feet; drains, 77,000 feet.

Interior piping of all kinds, 300,000 lineal feet (57 miles).

List of plumbing fixtures: Natatorium, 1; showers, 1,000; bathtubs, 158; lavatories

•62; sinks. 320; drinking fountains. 34; water-closets. 587; urinals. 297.

By inclosures will be found one blue print showing layout of outside steam lines. e blue print showing layout of fire mains, and a photograph showing condition of

main at a section which failed during a recent fire drill.

5. The average life of extra heavy pipes for fresh water is only five years, due to rapid terioration from iron oxide in the water, and while the deferrization plant to be realled during the present year will help future conditions, it will not remove the cessity of the usual replacements for 1923. The fresh water is supplied from artesian Ils within the limits of the Naval Academy.

5. The fire mains, as will be noted from inclosed photograph, are in particularly

or condition, and 1923 must include extensive replacements.

HENRY B. WILSON,

DEFERRIZATION PLANT.

Admiral Wilson. We have this year been working on \$90,000 less an the amount actually spent last year. There have been times the academy during this cold weather when we have not been able heat the buildings, because we could not run beyond our allotted propriation for the month. Without going through the whole ing in detail, I will say that that amount of \$1,105,000 is none too rge. I say that from our experience this year. In addition to at—and I am coming now to an item that has caused an increase ir water at the Naval Academy is from artesian wells, and it is led with iron. That iron has been the cause of our using an extra nantity of water, because when anyone turns on a spigot and this ellow mud comes out, he will let the water run until it runs clear. e have in last year's appropriation an amount of money to put in deferrization plant which is now under construction and will be ady for operation July 1, 1922. That deferrization plant will be ell worth the money, because it will take the iron out of the water, nd make a less expenditure necessary by keeping our pipes from prroding, as they have done in the past and are doing now. We timate that it will cost \$20,000 to operate that deferrization plant, nd we would like to have \$20,000 added to this amount, which is ss than the amount of the reduction we have made in other places. ais estimate is conservative and itemized as follows: Supervision, 3,000; operators (4), \$7,000; material, \$5,000; power plant costs,

\$5,000; in all, \$20,000. I ask that because I really believe that is going to be an economical move on the part of the Naval Acade That would make the sum we would like to have for mainten \$1,125,000. Every expenditure under this item is scrutinized me, with the assistance of Commander Kidd, and I do not t that a dollar gets away from us.

REPAIRS TO PUBLIC BUILDINGS, WHARVES, AND WALLS.

Mr. Kelley. Have you the details of this item?
Commander Kidd. Yes, sir. For repairs to public build wharves, and walls inclosing the grounds of the Naval Acad improvements, repairs, and fixtures, the estimated expenditu **\$**521,983.62.

Mr. Kelley. That is the big item!

Commander Kidd. Yes, sir.

Mr. Kelley. That is for repairs to the buildings?

Commander Kidd. Yes, sir.

PAINT, LUMBER, ETC.

Mr. Kelley. Paint and materials of that sort are very n cheaper, or will be very much cheaper next year.

Commander Kidd. I do not believe you will find a very ma

reduction in that throughout the country.

Admiral Wilson. We had a lot of paint on hand in the Navy

which we are paying the old prices.

Mr. Kelley. We authorized the Navy Department to reduce t prices to current prices, so you will not have to pay any more you would have to pay on the market. I think these items involve large purchases of commodities of that kind on the ma should show a great reduction this year from last year.

Commander Kidd. For instance, in connection with these rep

when the wind and rain come driving down the Severn River Vi water comes under and around the window sills, and the sills windows must be renewed in several buildings without delay dr

the coming summer.

Mr. Byrnes. Lumber has been reduced in price.

Commander Kidd. Lumber is lower; yes, sir. This work has been undertaken yet, but it is work that must be undertake

Mr. Kelley. The large items will be lumber, paint, nails, cen and sand.

Commander Kidd. Yes, sir.

Mr. Byrnes. Lumber is away down. There has been qui decrease in the price of lumber?

Commander Kidd. Yes, sir.

Mr. Kelley. You may put in the record a statement of expenses last year under this item by classes, and your estima expenses for the coming fiscal year arranged by classes.

Commander Kipp. I will do so.

FUEL.

Mr. Byrnes. Do you buy fuel under this item?

Admiral Wilson. Yes, sir; and during this winter we were up gainst it in the heating of the building.

Mr. Byrnes. How do you buy coal?

Commander Kidd. A contract is made every six months in the lavy Department. I think the last contract price was \$7.23 per ton. Admiral Wilson. Last winter we had to turn the heat on for

wo hours in a building and then turn it off for two hours.

Mr. Byrnes. Is there a decrease in the price of coal?

Commander Kidd. There was an increase of about 40 cents per ton.

Mr. French. What kind of coal do you use?

Commander Kidd. It is bituminous coal, or steaming coal.

Mr. Kelley. What was the price?

Commander Kidd. \$7.23 per ton under the present contract.

Mr. Kelley. What is the date of that contract?

Commander Kidd. October 1, I believe.

Mr. Kelley. The price depends upon where it is delivered? Commander Kidd. Yes, sir; it must come down there by rail and arges. It is delivered at the Naval Academy.

Mr. Kelley. What did you pay last year?

Commander Kidd. The average cost, I think, was \$6.828 delivered t the Academy.

Mr. Kelley. For the same grade of coal?

Commander Kidd. Yes, sir. Another item that makes the Naval cademy more expensive than it would be in most localities is the on in the water that affects the pipes to such an extent that the life f the pipes there averages only about five years, and we have 50 niles of interior piping.

Mr. French. You have installed this deferrization apparatus

Mr. French. You have installed this deterrization apparatus bove the system entirely, so that all of your piping will be free from

on !

Commander Kidd. Yes, sir. Of course, the immediate effect of hat saving will not be marked, but in the long run it will amount to great deal. Our fire mains are affected in the same way, and they II up with sediment, and one entire high-pressure loop protecting pshur and Roger Roads must be renewed.

Admiral Wilson. We have filters now, and they are quite expensive keep up. There will be a saving through the elimination of the

lters.

Mr. Kelley. For general maintenance and repairs at the academy ou spent \$521,000, and you are asking for how much?

ou spent \$521,000, and you are asking for how much? Commander Kidd. We are making the estimate upon the basis of the expenditure of last year.

Mr. Kelley. You are apportioning it in about the same way?

Commander Kidd. Yes, sir; in about the same way.

Mr. Kelley. There were no unusual expenditures included in the st last year!

Commander Kidd. None at all. The maintenance and repairs nount to about 7 per cent of the value of the entire plant.

FURNITURE.

Mr. Kelley. What is the item for furniture for the buildings? Commander Kidd. Last year that was \$55.630.93.

Mr. Kelley. That was at a time when you were furnishing twings of the building!
Commander Kidd. No, sir.

Mr. Kelley. That would not occur this year?

Commander Kidd. Just how much we will require for that. I ex not say offhand, but the breakage of furniture by the young me there is more than one would ordinarily expect. The labor alone to merely keeping up with the repair of chairs amounts to over \$5.00 a year.

Mr. Kelley. What does this item for furniture include?

Commander Kidd. That includes everything in the way of furn ture repairs (labor and material), and includes new furniture for **r**e placements as may be required for the quarters for the midshipmer and all of the other buildings, of which there are a total of 116 major buildings.

Mr. Kelley. You had to purchase new furniture, because vol

opened up two new wings?

Commander Kidd. Those two wings were opened up before has

Admiral Wilson. I do not think this furniture went into the

Mr. Kelley. You would not need \$50,000 worth of furniture to the academy each year. There must have been some special nee for it last year.

Admiral Wilson. We will look into that.

Expenditure last year for furniture.

New furniture for midshipmen's rooms. Labor (repairs to furniture)	16, 612.6
Total	55 CW (

Commander Kidd. The item of coal and other fuel amounts t \$197,576.90. That was on the basis of \$6.83 per ton for coal. Let winter was a very mild winter, and the expenditure for coal was me as great as the expenditure this winter. In order to keep the expend ture down this year, it is necessary to put the steam on for two hou and off for two hours and shift it around. We do not shut the plat down, but we shut the steam off Bancroft Hall for two hours and shift the steam to another group of buildings for two hours.

Admiral Wilson. This winter I went several times through built ings and saw midshipmen with their overcoats on because of !!

lack of heat.

Mr. Kelley. Repair of buildings and fuel are the two big item

iral Wilson. Yes, sir.

LEY. The others are about the same as for previous year mu der Kidd. Yes, sir.

. Do you have much telephone expense?

mander Kidd. No, sir; that comes from the Navy Department the appropriation "Pay, miscellaneous." Kelley. How does this item for pay of inspectors and drafts-

ome in here?

mander Kidd. The drafting force over there is paid under tenance and repairs," and the inspectors for the new work going on and also the printers come under that.

EXPENDITURES AND ESTIMATES FOR MAINTENANCE AND REPAIRS.

Kelley. You will put in the two statements, one showing xpenditures and the other showing the estimates by classes? mander Kiddley, Sir.

Kelley. I think you had better apportion that if you can. mander Kidd. Yes, sir.

Expenditures and estimates, maintenance and repairs, Naval Academy.

	Expenditures fiscal year 1921.	Original estimated expenditures fiscal year 1923.	Reduced estimated expenditures fiscal year 1923.
sary repairs to buildings, wharves, and walls in- he grounds of the Naval Academy, improvements, and fixtures periodicals, maps, models, and drawings and repair of fire engines; fire apparatus, and plants. and maintenance of all horses and horse-drawn ve- r use at the academy, including the maintenance, and repair of three horse-drawn passenger-carry-	\$521, 983, 62 125, 00 584, 59 18, 603, 34	\$522,000.00 125.00 650.00 19,000.00	\$481,600.00 100.00 10,000.00 15,000.00
cles to be used only for official purposes. plants. repairs of same. for Government buildings and offices at the acad- kiding furniture for midshipmen's rooms; and re-	2,000.00 12,634.48 2,378.56	13,000.00 2,000.00 13,000.00 3,000.00	10,000.00 1,200.00 10,000.00 2,000.00
ime urniture for midshipmen's rooms \$11, 212, 61 (repairs to furniture) 16, 612, 63 (a1 27, 815, 69 55, 640, 93	55, 630. 93 197, 576. 90	55,000.00 200.000.00	50,000.00 200,000.00
il, and gas. e on light and power plants. nd clearing up stations and care of buildings. e on fires, lights, fire engines, fire apparatus, and ud telephone, telegraph, and clock systems.	14, 555, 00 146, 727, 22 63, 914, 73 3, 837, 44	14,000.00 156,000.00 64,000.00 4,000.00	14,000.00 145,000.00 60,000.00
abor g, water tax, postage, telephones, telegrams, tolls, age awnings Dares ating and lighting bandsmen's quarters	9, 708. 01 7, 747. 14 5, 544. 69 116. 40 9, 147. 82	7, 100, 00 6, 000, 00 125, 00 9, 000, 00	5,000.00 4,000.00 3,000.00 100.00 9.000.00
pectors and draftsmen. astronomical instruments. employees on leave. pee and operation of deferritization plant.	12, 587, 82 4, 325, 62 72, 190, 43 22, 947, 02 0, 00	9,000.00 9,000.00 5,000.00 65,000.00 23,000.00	4,000.00 3,000.00 55,000.00 20,000.00 20,000.00
rision of deferritization plant \$3,000,00 al. 5,000,00 engineers (3 men and 1 relief 7,000,00 plant costs 5,000,00			,
20,000,00	1, 195, 102, 56	1,200,000.00	1, 125, 000. 00

COMMUTATION OF RENT FOR BANDSMEN.

Mr. Kelley. The next is commutation of rent for bandsmen. That is the same as last year, and you have the same number of bandsmen and the same pay?

Commander Kidd. Yes, sir.

NUMBER OF BANDSMEN.

Mr. Kelley. How many have you in the band?

Admiral Wilson. It was established by a special act of Congress and I think it has somewhere between 60 and 75.

Mr. Kelley. I wish you would put the exact number in the record Admiral Wilson. Very well.

Note.—The band consists of 75 musicians, including the leader.

TOTAL-MAINTENANCE AND REPAIRS.

Mr. Kelley. How much does that make in all for repairs and maintenance!

Admiral Wilson. What we ask for sir, is \$1,125,000.

Commander Kidd. And what we spent last year was \$1.195,102.56 Mr. Kelley. Probably we had better inquire of the Bureau of Yards and Docks as to the cost of such articles as go into repairs as compared with last year.

Commander Kidd. It is a question of men and material.

NUMBER OF GRADUATES TO BE COMMISSIONED.

Mr. Kelley. There is just one other question, Admiral, and that is the number of officers you expect to make from your graduating class this year. How many of the graduates do you desire to have commissioned?

Admiral Wilson. Personally, I would like to see all the graduate commissioned on account of their having put in four years at the academy and having gone through all that time with the idea of becoming officers, but, of course, I have nothing to do with the number who do get commissions

number who do get commissions.

Mr. Kelley. The line of the Navy is about 4,100, as I recolled, and I am told by the Navy Department that the natural loss from death, resignation, and other causes would run about 135. Of course nobody intends to increase the number of the line above the 4.100 and what have you to say about the desirability of putting 500 boys into the Navy to fill 135 vacancies?

Secretary Denny. May I say just a word? That is a pretty har question to ask the admiral to answer. They have had hearings for the other committee and they suggested the question of whether or not it would be a good idea to have some of the old reserve office who are still acting dropped and substitute new ones. I do suppose Admiral Wilson has any way of forming any opinion as that, but he would have an idea as to taking the new men and getting rid of the older men, the reserves and men of that character.

Mr. Kelley. That is, create more vacancies by some other method Secretary Denby, Yes.

Mr. Kelley. You suggest that that be done by taking out of the ne in some manner the officers who were recently taken in from the erves?

Secretary Denby. Some of them and some who would like to retire nder the 30-year retirement law and would do it if we should let

Mr. Kelley. Admiral, have you figured at all how long it would

ake these boys to get above the grade of lieutenant?

Admiral Wilson. No, sir; I have not. All I know on the subject s what I heard in the Committee on Naval Affairs the other day, and gathered there was an arrangement by the Navy Department by thich it was proposed not to increase the total number of officers but take vacancies by retirement so that the whole class could get in. I ave not gone into any of the details nor have I considered it was my uty to do so.

Mr. Kelley. I take it your answer to my question, to the effect that was desirable to take this class in, was predicated upon the assumpion that the Navy Department intended to make vacancies enough

or these boys to fill.

Admiral Wilson. That is what I intend to convey, that the Navy Department, without increasing the total number, was to make some rrangement by which vacancies could be created for this class.

FUTURE PROMOTION OF GRADUATES COMMISSIONED.

Mr. Kelley. And unless the number of vacancies was made equal o the number of midshipmen it would not be fair to the boys to put hem in and have them take chances on being promoted, would it?

Admiral Wilson. I think those men down there would take any

hance to get into the Navy.

Mr. Kelley. They would now, but in three, four, or five years from now, when they begin to have families and find it impossible to be promoted—

Admiral Wilson (interposing). I doubt, under the most adverse onditions, whether it would be any worse than the time I came in he Navy, for I was 13 years from the time of graduation until I vas made a junior lieutenant.

Mr. Kelley. That is not a very good situation, is it? Admiral Wilson. No. sir; but I survived it, and I am happy I am till here.

Mr. Kelley. Of course the fact that the Navy was greatly expanded in the more recent years of your life has made a great deal

of difference, I imagine.

Admiral Wilson. My idea was that the increase in the Navy was lue to the necessities of our country, and I have thought that the mme thing will probably obtain in the future. Although I personilly recognize it is a hard time for our country economically, yet I hink it is wrong to do away with the Navy until we are better satisied it will not be needed again. In my day as a midshipman gradate many good officers were lost and sent into civil life who would ave been of great value later on, and the amount expended to get eople to fill their places was much more than what it would have ost to retain them.

Mr. Kelley. I have not read the hearings before the Naval (mittee, so, Mr. Secretary, I wish you would give us a sort of res of what the plans are.

Secretary Denny. They have substantially been stated by Adn

Mr. Kelley.' I mean a little more in detail. What officers

what grades do you intend to eliminate from the line?

Secretary Dexby. Well, we have no idea of eliminating any w it is the will of Congress to do so. We hope to keep the line off and eliminate some of the staff, if necessary, where they are show be disproportionate with the line.

Mr. Kelley. I understood that Admiral Wilson predicated recommendation for putting 541 officers into the line upon the th

that vacancies to that extent would be created.

Secretary Denby. Those vacancies are-

Mr. Kelley (interposing). He did not mean bookkeepers,

masters, and that kind of thing?

Secretary Denby, No: line officers; but there are a good n reserve officers who are now operating auxiliary ships of one kin another.

Mr. Kelley. They are in addition to the 4,100. You have 40 those in addition to the 4.100?

Secretary Denby. That is so, too.

Mr. Kelley. Admiral, is there anything further which you de to say to the committee?

DAIRY.

Admiral Wilson, As you know, the Government loaned the r shipmen's store \$255,000 for the dairy. Now the question co up how to pay it back. It is only a question of bookkeeping scratch it off the list. If the dairy is kept as it is to-day and midshipmen have to pay back the money, then you have a prop that is worth about \$350,000 lying there belonging to the mids men to which the Government holds the deed.

Secretary Denby. Has the land been bought? Admiral Wilson, Yes, sir. I should like to make a proposi to you: As it is now, with the ration at \$1.08, it is our intention save and eventually repay the Government the \$255,000 that borrowed. Then the midshipmen would have paid for the d with the Government holding the deed (at least it does now v the sum of \$255,000 is still due). That, I think, would be a situation. What I suggest is that the Government wipe off the which will be a matter of bookkeeping and involve no appropria Then the ration could be reduced to 85 cents per day per mid man, making a saving of 23 cents per day per midshipman it appropriation to be made. In other words, the Government is getting no money paid back for the \$255,000 loan and is promoney, \$1.08 per day per midshipman, whereas if you reduce ration to 85 cents per midshipman and wiped off the indebta ll be 23 cents per day per midshipr-- that you will would be ap ropriati bill. The present years which ш ally come bas

the Treasury. The proposed way, by a matter of bookkeeping, you will reduce the appropriation by 23 cents per day per mid-shipman.

Mr. French. Your plan would be to make the dairy a part of the

academy plant?

Admiral Wilson. A Government establishment.

Mr. French. And it would contribute its part in lieu of what we

would otherwise appropriate for the support of the boys?

Admiral Wilson. Yes, sir. For 85 cents a day we will feed the midshipmen—and they live well—run the dairy, and supply them with milk. The Government will have a property worth \$350,000 on which they have paid a loan of \$255,000.

Mr. Kelley. The boys pay a certain amount for their milk as a

part of the ration of \$1.08?

Admiral Wilson. Yes, sir.

Mr. Kelley. The reason why the ration is so high is because of the keeping of the farm the cost of the milk is above what it would be if bought from private people?

Admiral Wilson. No; not exactly. We get much better milk. Mr. Kelley. I know that the milk is better, but it costs more? Admiral Wilson. It costs 80 cents a gallon.

REDUCTION OF DAILY RATION TO PAY FOR DAIRY.

Mr. Kelley. Have you saved anything?

Admiral Wilson. Yes, sir. You could cut the ration to \$1.02 from \$1.08—6 cents a ration—and we would save up and probably be able to pay the Government the money back in four years. But you could reduce the appropriation by a certain amount if you would wipe off this question of bookkeeping, which takes no money.

Mr. Kelley. You want to reduce the ration 6 cents a day and use

the 6 cents?

Admiral Wilson. No. If you want the dairy to go on as it is to-day we say that you can cut the ration to \$1.02.

Mr. Kelley. That would be a saving of 6 cents a day, not on the

dairy, but on other things?
Admiral Wilson. Yes, sir.

Mr. Kelley. How can you reduce the ration to 85 cents?

Admiral Wilson. Because the difference is the money we are going to save to pay on the loan. What is the use of appropriating \$1.02 a day to the midshipman and let him put 17 cents into a fund to pay you back at the end of four years? Why not wipe off the \$255,000—it is a mere matter of bookkeeping—and reduce your appropriation by 17 cents for every midshipman per day?

Mr. Kelley. Of this \$1.08, what part of it goes to create a fund

to pay back the Government?

Admiral Wilson. We will run the ration about 85 cents.

Mr. Kelley. Then the Government will get 17 cents out of each \$1.02 that it appropriates?

Admiral Wilson. Yes, sir.

Mr. Kelley. Of course, the ration will come down? Commander Harris. The year before it cost \$1.22. Mr. Byrnes. Then they will get the milk for nothing?

Admiral Wilson. The dairy then would be a part of the Gover ment. When the lien of the midshipmen is declared off and the Go ernment assumes the dairy, worth \$350,000, immediately you c down the ration to 85 cents and make your appropriation bill to so much less, the difference between 85 cents and \$1.02.

Mr. Kelley. Have you some money to the credit of the Gover

ment !

Admiral Wilson, \$38,000.

Mr. Kelley, And that is the amount you could pay back to t Government any time you wanted to! Admiral Wilson, Yes, sir.

Mr. French. That is in the fund! Admiral Wilson, Yes, sir.

Mr. French. What is the fund called?

Admiral Wilson. It is saved up to pay back the \$255,000.

.Mr. Kelley. Is that invested anywhere!

Admiral Wilson. No, sir: it is in the Treasury.

Mr. Kelley. So the original loan has been reduced by \$38,000? Commander Harris. No; it is held in reserve.

Mr. Kelley. As against the advance?

Commander Harris, Yes, sir.

Mr. Kelley. You can not draw it out?

Admiral Wilson. It is to Commander Harris's credit. We con use it for anything. We have put it aside as a sinking fund town the repayment. The only question about it is whether we shall f the ration at a certain point which will wipe that out.

Mr. Kelley. Wipe it out by legislation? Admiral Wilson. Yes, sir; and reduce the ration and make you

total figure so much less in the appropriation bill.

Mr. Kelley. So that those who talked about the comparison b tween the ration at the Naval Academy and at the Military Academ would not realize that we are wiping out a debt here?

Admiral Wilson. No, sir.

Mr. Byrnes. West Point will then want free milk?

Admiral Wilson. It has not been free milk. The midshipm have borrowed this money and with care and attention have bu up a dairy which they are utilizing for their health and comfo If the Government will say to us, "You need not pay back that su let it always stay on the books," we can reduce the ration to 85 cer right here, and we will run the dairy and feed the midshipmen everything; but if we have to pay back the \$255,000 that means the we have to have some extra money which you will give us to p it back because you are holding this property which is won \$350,000

Mr. Kelley. Or we can let the loan stand and reduce the rati to 85 cents?

Admiral Wilson. I am perfectly willing to let the loan go all and have the ration reduced to 85 cents, provided you say it is

ιy

ELLEY. If at any time the Tr iry s ng l n would .ve ™ pro

ald insist on t e increased! s just the prop with the own eing a lot of midshipmen. There is the property worth that money. think it would be a business proposition to settle it and for the covernment to assume it.

Mr. Kelley. Now it is a midshipmen's affair? Admiral Wilson. Pure and simple; yes, sir.

Mr. Kelley. You have money enough to pay the store the \$69,000 hat you owe?

Admiral Wilson. Yes, sir.

Mr. Byrnes. Where will you get the money to wipe it off?

Admiral Wilson. Just wipe it off. I think it would be a valuable hing to settle and not have the \$350,000 property belong to a lot of iidshipmen.

Mr. Kelley. Is there any other statement you would like to make,

dmiral?

Admiral Wilson. No, sir.

Mr. Kelley. We are very much obliged to you.

, Wednesday, March 15, 1922.

MARINE CORPS.

TATEMENTS OF HON. EDWIN DENBY, SECRETARY OF THE NAVY; MAJ. GEN. JOHN A. LEJEUNE, COMMANDANT MARINE CORPS; BRIG. GEN. CHARLES L. McCAWLEY, QUARTERMASTER; BRIG. GEN. GEORGE RICHARDS, PAYMASTER; LIEUT. COL. HUGH MATTHEWS, ASSISTANT QUARTERMASTER; LIEUT. COL. H. C. SNYDER; AND CAPT. L. C. SHEPHERD.

Mr. Kelley. We have with us this afternoon the Secretary of the Navy, General Lejeune, General Richards, and other officers of the Marine Corps for the consideration of the Marine Corps estimates. General, would you like to make a general statement before we go into details?

General Lejeune. Yes, sir.

Mr. Kelley. If so, we will be very glad to have you go ahead your own way.

GENERAL STATEMENT.

General Lejeune. Mr. Chairman and gentlemen of the committee, in the hearings before this committee last year I described the measures taken to administer the affairs of the Marine Corps economially. I pointed out some of the steps which we had taken to cause reduction in the expense of maintaining the Marine Corps. The program of economy has been continued with increasing intensity until the present time. As no great result can be attained without coperation, we have endeavored in every way practicable to educate public opinion within the Marine Corps and to instill into the minds of officers and men the vital necessity of preventing waste and the great importance of putting our corps on an economical basis. This program of education has been conducted by means of orders, circular letters, bulletins, personal letters, personal talks, addresses to

groups of officers, notably at Quantico, and especially through weekly conferences held at headquarters Marine Corps, who matters of interest or importance to the Marine Corps are thorough discussed.

Stenographic notes of the discussions at these conference taken, and after correcting the rough draft mimeographed care made and transmitted to all the posts of the Marine CI In all of these conferences the subject of economy has been upon, and the economies effected have been described. In this the entire Marine Corps is kept informed of our policy, and e one has had the benefit of the experience of others. All our of and men have cooperated loyally, faithfully, and efficiently, enormous results have been achieved.

ECONOMIES EFFECTED.

I will not attempt in this statement to go into the details. however, wish to mention some of the salient features of our nomical program. On January 1, 1921, we returned to the sy of an annual money allowance of clothing for the enlisted men. ing the war this system was abandoned and clothing was issued to men gratuitously. This method, while necessary in time of resulted in great waste. The return to the system in effect price the war has resulted in an annual saving of about \$1,332,000. other great saving has been effected by reducing the number civil employees. Since the close of the fiscal year ending June 1920, a total reduction of \$775,502.74 in this item of expense has effected at Quantico, Parris Island, and the depot of supplies, Pl delphia. In the recruiting service a large reduction of expense been made. During the calendar year 1921 the total cost of service, including commutation of rations and quarters for recrui was \$490,000 less than the preceding calendar year. This does include cost of transporting recruits, which is chiefly a function the number of men required to be enlisted, although in this named item a saving of transportation charges of \$10 per man effected. We did that by intensifying recruiting at the near-by tions and minimizing it at the distant stations.

Since January 1, 1922, savings in rentals at the rate of \$12.35 per annum have been made. Clerical force on duty at headqual United States Marine Corps was reduced by 177 between Jul 1920, and February 1, 1922, with a saving in money to the Government of \$85,500 and a much larger saving in the cost of administion of headquarters.

In other words, that money represents the difference in the of keeping men on a commutation basis and the cost of keep them at the barracks, but the actual cost of maintaining the h quarters has been about \$400,000 less. The men have been returned to duty and are now carrying rifles instead of doing office work.

REDUCTION IN PER CAPITA EXPENSE.

h e resulted in large ings in the I not I do not deep it to take to take

n adopted w ce appropriat uable time of mmittee by enumerating them, especially as all of the details will brought out by Brigadier General McCawley in his statement. do wish to mention, however, the following reductions in expendires, viz:

(a) Fiscal year ending June 30, 1920, there was an average of .161 enlisted men supported by the Marine Corps and an expendi-

re of \$17,473,268 under the maintenance appropriation.

(b) In the fiscal year ending June 30, 1921, there was an average 20,015 enlisted men and an expenditure of \$13,620,844.

(c) In the current fiscal year there will be an average of 21,000

listed men and an expenditure of \$10,155,050.

A comparison of these figures shows that the per capita expense der the maintenance appropriation during the three years in queson was as follows: 1920, \$962; 1921, \$694; 1922, \$483.

This reduction in per capita expense was made possible partly the falling prices and partly by economies in administration. this connection, I feel that I should remind the committee that e Marine Corps has asked for no deficiency appropriation this When the current naval appropriation bill became a law in ily last, it seemed impossible for the corps to maintain an average listed strength of 21,000 on the funds allotted; as to do so meant e support of 1,000 more men than the year before on funds which re \$3.500,000 less than the amount expended during that year. e determined, however, to accomplish the task if it was humanly ssible to do so; and we now feel safe in saying that we have suceded and that there will be no deficiency in our appropriation.

EXPENSE OF GUARDS FOR MAIL TRAINS.

In addition to the usual expenses we financed the mail guards, an tra expense which we estimate to be about \$325,000, and which me from the funds which we had reserved for an emergency. Our success has been due to the systematic handling of Marine orps funds, to the exercise of rigid economy, to the authority to ilize our appropriations as one fund, and to the fact that we enred this year with large stocks of supplies on hand. Part of these ocks, such as provisions, were purchased during the latter months the preceding fiscal year, and the remainder consisted of supplies tained during the World War. We will not be so fortunate next ar, as our stocks have been very much depleted, and the lack of nds this year will prevent the purchase of supplies in advance. or this reason our estimates for our maintenance appropriations r next year are somewhat in excess of the amounts appropriated is year. I am referring not to our original estimates, but to our vised estimates. The original estimates were prepared last July, nen it seemed impossible to maintain the corps for a smaller nount, but profiting by our experience since that time, we have vised them downward and have succeeded in materially reducing em: that is, the figures we will present to you to-day are very much low the figures that were sent to you through the Budget. We feel that the revised estimates are based on sound principles

I that the entire amount requested will be necessary.

OFFICERS AND ENLISTED MEN.

These estimates are for the support of only 20,000 men, a reduction of 1,000 below the average strength for this year. The number estimated for was prescribed by the Navy Department, and does not represent the number of men required to perform satisfactorily the peace-time duties assigned to the Marine Corps. A summary of those duties and the number of officers and men now detailed for their performance are as follows:

Personnel.	Enlisted.	Commis- sioned.
a) Marine detachments on vessels of the fleet.	1,938	н
h) Garrisons for Haiti, Santo Domingo, Virgin Islands, Guam, Nicaragua, and Peking	5,069	38
c) Guards for navy yards, naval stations, ammunition depots, etc., at home and abroad	4, 379	111
d) Detachments for duty at training stations, recruiting service, at headquarters, supply depots, staff offices, etc	: 2,469	21:
Recruits under training Expeditionary forces for emergency use:	' 'i	•••••
East coast. 3,078 West coast. 857		9.2
g) Aviation at home and abroad	3, 965 750	77
	20, 120	91

The number unaccounted for (8%) men and 28 officers) are casual detachments en route to and from feeign stations, sick in hospital, etc.

Mr. Kelley. And these new estimates are based upon 20,000 men? General Lejeune. Yes, sir. In this summary the officers and men are grouped by classes of duties for convenience of reference and to afford a basis of discussion. The tables of complements, now submitted, give in detail the number of officers and men authorized for each detachment, post, barracks, or ship, both at home and abroad. They account for every officer and every man now in the Marine Corps, and are as follows:

Distribution of the commissioned complement of the Marine Corps, Feb. 10, 1922.

Annapolis, Md.: United States Naval Academy 3
Boston, Mass.: Marine Barracks, navy yard 5
Charleston, S. C.: Marine barracks and naval prison 4
Hampton Roads, Va.: Naval operating base 3
Hingham, Mass.:
Naval ammunition depot
Receiving ship1
Indianhead, Md.: Naval proving grounds1
Key West, Fla.: Naval operating base 2
New London, Conn.: Naval submarine base 2
New Orleans, La.: Marine barracks, naval station 2
Newport, R. I.: Naval torpedo station
New York, N. Y.:
Marine barracks, navy yard \$
Receiving ship1
Dover, N. J.: Naval ammunition depot 1
Norfolk, Va.:
Marine barracks, navy yard 7
Sea school
St. Juliens Creek, Va.: Naval ammunition depot 1
Pensacola, Fla.; Naval air station

6	3	7

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iladalphia Da	
niladelphia, Pa.: Marine barracks, navy yard	10
Receiving station	10
ort Mifflin, Pa.: Naval ammunition depot	î
ortsmouth, N. H.:	-
Marine barracks, navy yard	4
Naval prison detachment	7
outh Charleston, W. Va.: Naval ordnance plant	i
ashington, D. C.:	_
Marine barracks	2
Marine Corps Institute	11
Marine barracks, navy yard	4
eadquarters Marine Corps:	_
Major general commandant and aids	5
Recruiting	ĭ
Personnel	3
Operations and training	9
Adjutant and inspector	7
Quartermaster	9
Paymaster	11
Special duty with Army and Navy	12
orktown, Va.: Naval mine depot	1
arris Island, S. C.: Marine barracks (to fluctuate between 33 and 48, de-	
pendent upon number of recruits under instruction)	40
aff offices (east):	
Assistant paymaster, Philadelphia, Pa	1
Ass.stant paymaster, Atlanta, Ga	1
Depot of supplies, Philadelphia, Pa	4
Depot of supplies, Hampton Roads, Va	2
ecruiting: Recruiting bureau and service	36
are Island, Calif.: Barracks detachment, naval prison detachment, naval	
ammunition depot, rifle range detachment, and recruit depot	21
uget Sound, Wash.;	
Marine barracks, navy yard	6
Naval ammunition depot	1
eyport, Wash.: Naval torpedo station	1
an Diego, Calif.:	
Marine barracks	4
Naval air station	1
in Pedro, Calif.: U. S. S. Eagle No. 11	1
epartment of the Pacific, San Francisco, Calif	7
float:	_
Cavite, P. I	5
Olongapo, P. I	3
Managua, Nicaragua	5
Pearl Harbor, Hawaii	10
Guam	15 5
Guantanamo Bay, Cuba	7
Virgin Islands Peking, China	11
	1
San Juan, P. R. Casuals (including sick in hospital, en route, etc.)	28
aiti (should have 140) into Domingo, Dominican Republic (should have 181)	
rantico, Va. (should have 196)	
in Diego, Calif., Fifth Brigade (should have 40)	27
viation (should have 104)	$\tilde{7}i$
chools (saudents)	64
- present material and a construction of the c	
Total (should have 1,086)	942
Total Camain Base Description	ų Im
RECAPITULATION,	
Takel officers in Manine Come	040
Total officers in Marine Corps	942
ermanent details to staff duties and four-year details of line officers to	
staff duties	71
ne officers (additional) performing staff duties	35
The contract of the contract o	-

OFFICERS AND ENLISTED MEN.

These estimates are for the support of only 20,000 men. a red tion of 1,000 below the average strength for this year. The number immediated for was prescribed by the Navy Department, and does represent the number of men required to perform satisfactorily peace-time duties assigned to the Marine Corps. A summary those duties and the number of officers and men now detailed for the performance are as follows:

Personnel.	Enlisted.	Com
(a) Marine detachments on vessels of the fleet (b) Garrisons for Haiti, Santo Domingo, Virgin Islands, Guam, Nicaragua, and Peking (c) Guards for navy yards, navalistations, ammunition depots, etc., at home and abroad. (d) Detachments for duty at training stations, recruiting service, at headquarters supply depots, staff offices, etc. (c) Recruits under training. (f) Expeditionary forces for emergency use:	1, 938 5, 069 4, 379 2, 469 1, 550	-···
East coast. 3,078 West coast. 987 (g) Aviation at home and abroad. (h) Officers schools (students).	3, 965 750 20, 120	

The number unaccounted for (880 men and 28 officers) are casual detachments en route to and froz eign stations, sick in hospital, etc.

Mr. Kelley. And these new estimates are based upon 20,000 mer General Lejeune. Yes, sir. In this summary the officers and mare grouped by classes of duties for convenience of reference and afford a basis of discussion. The tables of complements, now similted, give in detail the number of officers and men authorized: each detachment, post, barracks, or ship, both at home and about They account for every officer and every man now in the Mar Corps, and are as follows:

Distribution of the commissioned complement of the Marine Corps, Feb. 19, 1! Annapolis, Md.: United States Naval Academy_____ Boston, Mass.: Marine Barracks, mavy yard..... Charleston, S. C.: Marine barracks and naval prison_____ Hampton Roads, Va.: Naval operating base _______________ Hingham, Mass.: ------Receiving ship... Indianhead, Md.: Naval proving grounds..... Key West, Fla.: Naval operating base New London, Conn.: Naval submarine base_______ New Orleans, La.: Marine barracks, naval station______ Newport, R. I.: Naval torpedo station_____ New York, N. Y.: Marine barracks, navy yard-----Receiving ship ... Dover, N. J.: Naval ammunition depot_____ Norfolk. Va.: barracks, navy yard..... Lool_ brook Va.: Naval an tion depot. .; al:

hiladelphia, Pa.:	
Marine barracks, navy yard	10
Receiving station	ĭ
ort Mifflin, Pa.: Naval ammunition depot	ī
ortsmouth, N. H.:	_
Marine barracks, navy yard	4
Naval prison detachment	7
outh Charleston, W. Va.: Naval ordnance plant	1
'ashington, D. C.: Marine barracks	
Marine barracks	2
Marine Corps Institute	11
Marine barracks, navy yard	4
eadquarters Marine Corps:	_
Major general commandant and aids	5 1
Recruiting Personnel	3
Operations and training	9
Adjutant and inspector	7
Quartermaster	•
Paymaster	
Special duty with Army and Navy	12
orktown, Va.: Naval mine depot	1
arris Island, S. C.: Marine barracks (to fluctuate between 33 and 48, de-	
pendent upon number of recruits under instruction)	40
taff offices (east):	
Assistant paymaster, Philadelphia, Pa	1
Ass.stant paymaster, Atlanta, Ga	1
Depot of supplies, Philadelphia, Pa	4
Depot of supplies, Hampton Roads, Va	2
tecruiting: Recruiting bureau and servicelare Island, Calif.: Barracks detachment, naval prison detachment, naval	36
ammunition depot, rifle range detachment, and recruit depot	21
uget Sound, Wash.;	21
Marine barracks, navy yard	6
Naval ammunition depot	ĭ
leyport, Wash.: Naval torpedo station	ī
an Diego. Calif:	
Marine barracks	4
Naval air station	1
an Pedro, Calif.: U. S. S. Eagle No. 11	1
epartment of the Pacific, San Francisco, Calif	7
float:	_
Cavite, P. I	5
Olongapo, P. I Managua, Nicaragua	3 5
Pearl Harbor, Hawaii	10
Guam	
Guantanamo Bay, Cuba	5
Virgin Islands	7
Peking, China	
San Juan, P. R.	1
Casuals (including sick in hospital, en route, etc.)	28
miti (should have 140)	98
anto Domingo, Dominican Republic (should have 181)	
uantico, Va. (should have 196)	
an Diego, Calif., Fifth Brigade (should have 40)	27
viation (should have 104)	71
rhools (students)	64
T 4.1 (.h.m.l.1 h.m. 1090)	040
Total (should have 1,086)	01 2
RECAPITULATION.	
Total officers in Marine Corps	942
TORRE ORDERS IN MARTINE COMPONENTIAL CONTROL OF THE PROPERTY O	
ermanent details to staff duties and four-year details of line officers to	
staff duties	71
ine officers (additional) performing staff duties	35

Number of officers allorted to aviation	- 71 76
Total	100
At sea.	=
Guards for navy yards, ammunition depots, naval stations, at home an abroad	1
Aviation at home and abroad	- 71
Guam.	
Permanent detachments for training stations, recruiting service, headquaters, staff officers, supply depots, Marine Corps Institute, Quantico, an	î
San DiegoExpeditionary:	- 212
East coast	36
West coast	27
Schools (students).	- 14
Casuals (including sick in hospital, en route, etc.)	- 38
Total	:42
SCHOOLS,	
Instructors	_ 20
Students: 'Company officers' school	- 21
Field officers' school.	24
Signal school, New Jersey	4
General Staff School, Washington, D. C	- 4
Fort Leavenworth, Kans.	
Camp Benning, Ga.	
Naval War College, Newport, R. L	2
, , , , , , , , , , , , , , , , , , , ,	-
Total students Total instructors	
Total	94
The above is the total now in schools.	
Distribution of authorized enlisted personnel on netice duty at home, on to station, and at sea, March 1, 1922, 21,000.	reina
Annapolis, Md.: United States Naval Academy	50
Alexandria, Va.: Naval torpedo station	12
Alexandria, Va.: Naval torpedo station	125
Chelsea, Mass.: Hospital guard	150 20
Hampton Roads, Va.: Naval operating base	125
Hingham, Mass,: Naval aumunition depot	50
Receiving ship.	50
Indianhead, Md.: Naval proving ground.	西
Key West, Fla.: Naval operating base New London, Conn.: Naval submarine base	75 50
New Orleans, La.: Marine barracks, naval station	100
Newport, R. I.: Naval torpedo station-	諨
New York, N. Y:	
Marine barracks, navy yard	239
ceiving ship detachment	25
val hospital guardte, N. Y.: Naval ammunition depot	21
N. Y.: Naval ammunition depot	4
de la servicio de la constante	6

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orfolk, Va.:	
Marine barracks, navy yard	202
Sea school	65 20
Naval hospital guardt. Juliens Creek, Va.: Naval ammunition depot	20 50
ensacola, Fla.: Naval air station	70
hiladelphia. Pa.:	•••
Marine barracks, navy yard	302
Receiving station	50
ort Mifflin, Pa.: Naval ammunition depot	50
oint Isabel, Tex.: Naval radio station	25
ortsmouth, N. H.:	
Marine barracks, navy yard	115
Naval prison detachmentter Cliffs, Me.: Naval radio station	$152 \\ 12$
outh Charleston, W. Va.: Naval ordnance plant	36
ashington, D. C.:	•
Mar.ne barracks, barracks detachment	50
Marine Corps institute	178
Navy yard	125
Naval hospital guard	20
Marine band	67
eadquarters, Marine Corps, Washington, D. C.: Assistant to Commandant, major general commandant, and adjutant	
and inspector's offices	90
Paymaster department	50
Quartermaster department	73
Navy building guard	19
Garage and dock	10
•	242
: orktown, Va.: Naval mine depot	44
iantico. Va.: Navai inine depotatatata antico.	44
Post permanent detachments	457
Third and Fourth Brigades	
	3, 0, 1.7
arris Island, S. C.:	
Post organizations	710
Recruits and apprentices	1,250
·	1, 960
	7,000
taff offices (east):	
Assistant paymaster, Philadelphia, Pa	9
Assistant paymaster, Atlanta, Ga Depot of supplies, Hampton Roads, Va	10 41
Depot of supplies, Philadelphia, Pa	70
permiting (east);	(1)
Eastern division.	1
Central division.	
Southern division	
Recruiting bureau.	403
cruiting (west):	
Western division.	
Mountain division	
DEPARTMENT OF THE PACIFIC.	
re Island, Calif.:	
Barracks detachment and guard company	304
Rifle range detachment	25
Naval ammunition depot	36
Naval prison detachment.	80
-	445
-	

Recruit depot. Mare Island, Calif.:	
Instructors	
Recruits	- 1
Sea school	
•	4
Puget Sound, Wash.:	=
Puget Sound, Wash.: Marine barracks, navy yard	_ 1
Naval ammunition depot	_
Keyport, Wash.: Naval torpedo station	_
San Diego, Calif.:	=
Barracks detachment, marine barracks	
Navy repair base	
Naval radio station, Choilas Heights	
Naval fuel plant, La Playa	
Naval air station	-
	_
Fifth Brigade, Seventh Regiment	_
San Pedro, Calif.: U. S. S. Eagle No. 11	-
San Francisco, Calif.:	-
Department of the Pacific and assistant adjutant and inspector	
offices	
Assistant paymaster	
Depot of supplies	-
Aviation	-
Marine detachments affoat	
	;
FOREIGN.	
Santo Domingo	_ 2.
Haiti	
Cavite, P. I	_
Olongapo, P. I	_
Managua, Nicaragua	
Pearl Harbor, Hawaii	
Guam, Mariana Islands	
Guantanamo Bay, Cuba	
Virgin Islands	
Peking, China	
Russian Island, Vladivostok, Siberia.	
Total	
Casual detachments	
	=
Grand total	21,
DISTRIBUTION OF AUTHORIZED ENLISTED PERSONNEL ON ACTIVE DUTY AT	HOVE
FOREIGN STATION, AND AT SEA.	
At sea	1
Guards for navy yards, ammunition depots, naval stations, etc.,	
home and abroad	4
Aviation (at home and abroad)	
Garrisons for Haiti; Santo Domingo; Virgin Islands; Peking, China	1:
Managua, Nicaragua; and Guam, Mariana Islands	_ 5
Permanent detachments for training stations, recruiting service, hea	d-
quarters, staff offices, supply depots, Marine Corps Institute, Quantic	0,
and San Diego, and Marine Band	1
Recruits under training	1
Expeditionary force:	
East coast (consisting of third brigade, First Regiment-Technic	al
and signal: Tenth Regiment—Artillery: fourth brigade, Fif	th
Regiment-Infantry and machine gun units; Six h Regiment	-
Infantry and machine gun units	-
coast (consisting of fifth brigade, 8e Regiment-1	D-
V)	~
	2

The strength of the detachments, etc., was arrived at after a most instaking investigation, and since they have been put into effect any protests have been received from commandants and other reonsible officers on account of the reduction in the authorized comements of the detachments at the stations under their command, id repeated requests have been received urging increases in both ficers and men. Very recently a strong appeal for 200 additional en came from Pearl Harbor. Practically all requests for increases ave been refused, and we have little by little built up our expedionary force at Quantico for emergency use. This force is the eart of the Marine Corps. Without it our hands are tied, we can ot function. With it we stand always ready for any emergency nat may arise at home or abroad. This expeditionary force fully rganized and equipped, trained to the minute, and with high esprit waits any call, whether it be from the State Department for enforceent of the Monroe doctrine or whether it be from some other deartment of the Government, as in the recent case of protecting the ails from the depredations of bandits. The policy of the Marine orps is to be of the greatest possible use to the people and to the overnment of the United States in peace as well as in war. adiness for service of the expeditionary force at Quantico makes e fully confident that we will be able to live up to our policy.

In November last, within a few hours after the call of the Post ffice Department, the men from Quantico and San Diego were larding trains, mail trucks, and post offices, and not one dollar was olen from the mails during the four months that they were guarded the marines. They have all been withdrawn. The last man

ent home on the 15th.

Quantico is also a reservoir from which we draw men for sea and r tropical service and into which are poured the men returning ome. I wish to urge as strongly and as earnestly as I am capable doing that no reduction be made in the enlisted strength, either change in the basic law or by means of appropriations. We need ery man of the 21,000 authorized for this year.

NEED OF ADDITIONAL OFFICERS.

In conclusion, I deem it essential to point out the vital importance maintaining the officer personnel at a number somewhat in excess the number representing 4 per cent of the enlisted men appropriated for. Briefly, the reasons for requiring the additional officers to the following:

(a) The quota of officers allowed the Marine Corps is much less

an that allowed either the Army or the Navy.

For our line and staff departments the law provides 4 per cent of e enlisted men: in the Navy for the line the law is 4 per cent, and the Army it is about 5½ per cent. The bill just reported by this mmittee provides for 115,000 men and 11,000 officers, which is pout 9½ per cent.

Mr. Kelley. That is the natural surplus that would be required for

urposes of expansion in case of sudden necessity.

General Lejeune. Yes, sir.

Mr. Kelley. I think that is sound doctrine.

General Lejeune. (b) Fifty officers of the authorized quota required for assignment to the gendarmerie of Haiti and the tional police force of Santo Domingo. They are included in or per cent, and we have to provide 50 additional officers.

(c) A larger quota of officers is needed in the Marine Corps account of the fact that it is divided into such a large number small detachments. If it were concentrated in one post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the concentrated in our post not so make the conce

would be necessary.

(d) Aviation requires a quota of officers of 10 per cent of

enlisted strength.

- (e) It is essential to the future efficiency of the Marine Corps t a sufficient number of officers should be provided to permit of the being given an opportunity to receive a military education at Marine Corps officer schools. We took in a large number of offic during the war and we have to send them to school to broaden the education. They came in after three months' training in an office training camp, and we have to send them to school to continue the education.
- (f) In common with all military and naval services it takes much longer to train officers than it does to train enli-ted men the some excess of officers should be allowed. There is no intention my part of filling the quota of officers. In fact, our estimates period of the property of t

Finally, I wish to assure the committee that we will continue do all in our power to conform to the expressed wishes of Congr. I have outlined our policy and our needs, but the decision rests the hands of Congress. Whatever that decision may be, we will our best to build up the efficiency of the Marine Corps and to me

it the finest military organization in the world.

Mr. Kelley. Which one of your officers will discuss with the emittee the distribution of the 20,000?

General Lejeune. I will myself, sir.

Mr. Kelley. Have you a list showing the distribution?

General Lejeune. Yes, sir: the distribution of both officers amen. Those lists represent the authorized complements. The num of men actually at the different stations varies slightly from day day.

Mr. Kelley. You will put in the record this table of distribution General Lejeune. Yes, sir.

NUMBER OF MEN REQUIRED AT SEA.

Mr. Kelley. The total number required at sea is 1,938?

General Lejeune. Yes, sir.

Mr. Kelley. Just how do you arrive at that number?

General Lejeune. That is the number actually at sea. This tel was made up a few days ago, but to-day there are actually 65 m less, because the *Columbia* was put out of commission the other days.

Mr. Kelley. Are they on other than the capital ships!

General Lejeune. They are chiefly on the in al ships, but have detachments on some ships which are for instance, in the West Indies the small c

or 40 men, and at Constantinople we have some men, as well as L China, but they are chiefly on the capital ships. I might add that the capital ships which the treaty provides shall be scrapped we we marines on one—64 men on the Connecticut.

Mr. Kelley. What is your quota for capital ships? General Lejeune. It varies with the size of the ship. Secretary Denby. The quota is not larger than 90.

Mr. Kelley. Ninety is the maximum?

Secretary Denby. Yes. General Lejeune. That is the flagship quota. We put a regular stachment on board and an additional number of men when it is a gship. The quota of marines is really fixed by the Bureau of Naviation as a part of the complement of the ship, and it varies from 90 wn to 64 on the capital ships and on the other ships according to e needs of the service.

Mr. Kelley. The number is more or less elastic between 64 and 90? General Lejeune. It is, but it is based on the duties which the men we been given on board ship. It is a matter that has been thrashed at for years.

Mr. Kelley. Do they have some duties in connection with the

peration of the ship?

General Lejeune. Yes, sir: on each ship a part of the battery is signed to the marine detachment, and it forms a part of the battle erce of the ship. The marines aboard ship are treated in no diferent way from the enlisted men of the Navy.

Mr. Kelley. Do you know how many marines would be assigned duties on a ship which enlisted men of the Navy would be re-

aired to do if marines were not carried?

General Lejeune. They would practically replace man for man, ecause the duties performed by marines are the same as would be **erformed** by enlisted men of the Navy.

Mr. Kelley. If there are 90 marines on board ship, that would be **uivalent** to adding 90 more men to the enlisted personnel of the

AVV!

General Lejeune. Yes, sir. Mr. Kelley. On that ship?

General Lejeune. Yes, sir. Secretary Denby. They all have battle stations.

Mr. Kelley. If they were not there Navy men would have to be Ext on to take their places if all the stations were filled?

Secretary Denby. Speaking broadly, that is true.

Mr. Kelley. On the battleships?

Secretary Denby. Yes; on the battleships that is true.

Mr. Kelley. So, in figuring the personnel of a battleship, Mr. eretary, the marines should be taken into account as a part of the **mple**ment?

Secretary Denby, Yes. They man the secondary batteries and metimes the turret batteries, but, as a rule, the secondary batteries. Mr. Kelley. In case you are a little short of marines you could **sobably** make a little saving there.

General Lejeune. We have made a saving on two ships. The Con-*ticut will go out of commission. I presume, as soon as the treaty ratified, or shortly thereafter, and the Columbia has already gone out, so in those instances there is a saving of approximately 130 me, and if any of the others go out of commission we will save the number of men on board those ships, because ships in reserve do not carry any marines.

Secretary Denby. And none of the new building program carrist any marines. The light cruisers would not carry marines. I would

like to qualify that statement.

General LEJEUNE. The two new battleships will carry marines, the

Colorado and Washington.

Secretary Densy. Yes; and the light cruisers and scout cruiser may, but I do not think the regular complement of marines would aboard. However, that will not make a change in the estimates because only three of those scout cruisers will come in next year.

Gen. Leseune. I will say this, that the *Delaware* and *North be-* kota are provided to be scrapped and the men aboard them are to be

transferred aboard the Colorado and the other battleship.

Mr. Kelley. I imagine the Secretary would want to keep those in

until the new ones take their places?

Secretary Denny. Yes, sir; they are now a part of the complement and they would be kept on the old ships until the new ships come in

Mr. Kelley. You have not brought up your distribution of the personnel. Mr. Secretary, but I suppose in any event you want to keep the 18 battleships?

Secretary Denby. I have not brought that table down yet: I have

not been able to go over it.

GUARDS FOR NAVY YARDS, NAVAL STATIONS, ETC.

Mr. Kelley. The next is for guards for navy yards, 4.379. General Lejeune. That is for all navy yards, naval stations, am-

munition depots, and naval prisons.

Mr. Kelley. And is that the number you have now?

General Lejeune. That is the number we actually have now, and it represents a cut of about 1,500 from what they formerly had: they have been cut everywhere and we have cut them down to pretty nearly the limit. I have a folder full of letters from commandants asking for more men.

Mr. Kelley. Everybody wants the marines?

General Lejeune. At Bremerton, Pearl Harbor, Mare Island. and so on.

Mr. Kelley. If it should happen that the navy yards are partially tied up this coming year, would that increase or decrease the

number of marines necessary?

General Lejeune. We have only had one place closed during the year—New Orleans. We attempted to reduce the number there, but the commandant protested so vigorously and pointed out the increased necessity for marines that we did not cut down the force. He pointed out that he had been deprived of his interior watchmen: that the stores were all there; that the buildings were all there; and that he did not have the workmen, who furnished some protection—so we did not cut down the force at all; we left it as it originally stood. So I should say, judging by that experience, that there will not be

y material change in the number of men needed unless the yards re abolished completely and all the stores and materials removed d abandoned.

PHILADELPHIA NAVY YARD.

Mr. Kelley. Take the Philadelphia yard, where I notice that you ve 302.

General Lejeune. That represents three groups of men: Men enged in guarding the navy yard; men engaged in manning the fire partment—the marines there constitute the entire fire departent of the navy yard—and the men who have to be employed in ing the cooking, cleaning, and the clerical duty, and the painters d carpenters. This last group is called the barracks detachment, he present complement is a cut of 150 from the original complement, e had 450 men there originally and cut it down to 302.

Mr. Kelley. Do you think if the yard were not used much

xt year that it would require that number?

General Lejeune. I do not think that we could make much of a there.

Mr. Kelley. Mr. Secretary, I suppose this would be one of the bints where you would concentrate pretty heavily on storage, the brage of ships, etc.?

Secretary Denby. Yes, sir.

Mr. Kelley. And the storage of supplies?

General Lejeune. That navy yard is all open. It has only a wire nee, and it also has a very long water front.

Mr. Kelley. It seems like a large number of guards.

Secretary Denby. I do not know the extent of the territory to be vered.

Mr. Kelley. It is a large place.

General Legeune. But no matter whether active or not, it is quite vious that the guard is necessary unless the yard is completely and oned.

WASHINGTON NAVY YARD-MARINE BARRACKS.

Mr. Kelley. How about the yard here in Washington—you have a trine barracks detachment?

General Lejeune. At the navy yard?

Mr. Kelly. Yes, sir.

General Lejeune. There are two posts here in Washington, the vy yard and the marine barracks proper. The navy yard detachent guards the buildings and supplies, and so forth, at the navy rd, and the other detachment represents our correspondence school.

Mr. Kelley. That is the Marine Corps institute?

General Lejeune. Yes, sir; which conducts the correspondence urses with the marines all over the world.

Mr. Kelley. How long has that been in existence?

General Lefeune. It was organized about two years ago, and about fear and a half ago it was moved to Washington. While the men engaged in this work they are trained and drilled and are ready any emergency.

Ir. Davis. How many men have you engaged in that particular

1

General Lejeune. All told, about 225. We have 5,000 stude enrolled, and our school is based on the International Corresponden School in Scranton. We have the same textbooks and system, a the cost to the Government is very small. Exclusive of the wages the officers and men engaged in it, it is less than \$4 per man enroll We give this course without any charge to the men, a course which if they took it from the International Correspondence School. wo cost them from \$100 to \$200 each. We think the resulting benefit the service makes it worth while to keep up the institute, especially the men are available in case of an emergency.

Mr. Davis. How many are there at Washington?

General Lejeune. At the navy yard about 150 men. Mr. Davis. I mean engaged in this correspondence work? General Lejeune, Running the correspondence school, I this about 225.

Mr. Davis. In Washington?

General Lejeune. Yes, sir. We put them here because the b racks were available, and they were away from the activities of ot posts. The institute has been of great benefit to the corps. One the criticisms of the military service for many years has been fact that we have taken boys in the Army, Navy, and Marine (or that they have gone through their enlistments, and that they have received no actual educational advantages apart from what the duties required them to learn. This school gives any boy or n the opportunity to study. He is not compelled to study. He is compelled to take the course, but we offer it to him gratis.

Mr. Davis. And most of them accept it?

General Lejeune. A great many. It has removed the sting of t criticism. The parents are very much pleased. They write us let about it. Quite a number now get their diplomas as graduates. have had letters from men who have been discharged telling us t the course of study has enabled them to get better positions in c life than they otherwise could have secured. I am certain the makes better soldiers. Unquestionably a man whose mind is train is better than a man who is untrained, illiterate, and has no educat

Mr. Davis. You think a man educated both physically and m tally is a little superior to the man educated in only one line?

General Lejeune. Yes, sir; unquestionably. The old theory that the best kind of a soldier was the man who did not know a thing, but who blindly obeyed orders. That theory has entirely appeared. I know, from personal experience, that the more a a man's mind is, the more training he has, the better soldier he

Mr. Kelley. You run the fire departments in all of the yards General Lejeune. Yes, sir.

GUARDS FOR FIRE DEPARTMENTS AT NAVY YARDS.

Mr. Kelley. About what percentage of these boys in the Pl delphia yard are used in the fire department?

General Lejeune. There were 35 in the fire department accord to the last report.

Mr. Kelley. You do that at the request of the Bureau of Y. and Docks?

General Lejeune. It is done by the commandant of the yard. He has the fire engines, hook and ladder, and hose carts and the marines man them. That saves the Bureau of Yards and Docks the expense of doing it.

Mr. Kelley. And that is true of all the yards?

General Lejeune. The marines form a part in the fire department in every yard, but there are different systems in vogue in every yard. In New York we had the fire apparatus at the barracks and the command turned out and went to a fire. In some yards they have a separate detail of men who do nothing else but stand by, like they do in a city fire department.

BOSTON NAVY YARD.

Mr. Kelley. At the Boston yard, 125?

General Lejeune. That includes the men guarding the Boston Navy Yard and guarding places like Squantum, which forms a part of the Boston Navy Yard, where there are a great many stores accumulated.

Mr. Kelley. You might possibly cut that a little next year?

General Lejeune. Not very many. Secretary Denby. What is the number at Squantum?

General Lejeune. About 15.

Mr. Kelley. And 110 at the Boston yard?

General Lejeune. Yes, sir.

Secretary Denby. At Squantum we have a lot of stores and only

Mr. Kelley. Of course, I can see, even if the yard is closed down, you will have to carry storage until you get cleaned up.

Secretary Denby. And it is more important.

Mr. Kelley. It is necessary to have it properly guarded. It is just

a question of what is the right number.

General Lejeune. I am entirely in accord with bringing the number engaged in guard duty down, because that will give us more men for other purposes.

Mr. Kelley. Please look into that very carefully as you go along? General LEJEUNE. Yes, sir. We will not give the stations a man more than necessary. We always give them less than the com-

mandant thinks is necessary.

CHARLESTON NAVY YARD.

Mr. Kelley. Charleston, 150. That sems like a large number. General Lejeune. They have several outside activities there. For instance, you will notice that at some of the stations we have a separate detachment for the naval hospital. In Charleston we do not. They have coal piers which they have to guard and a little prison where they have a detachment of about 20 men, and also other outlying activities which they have to protect.

PORTSMOUTH, N. H., NAVAL PRISON.

Mr. Kelley. Portsmouth, N. H., Naval Prison, 152. General Lejeune. There are from 800 to 900 prisoners. paratively few of the prisoners are in the prison; they are in wooden buildings that are outside the prison.

Mr. Kelley. What has happened to that fine marble prison? General Lejeune. They have about 250 in the cells inside the The others are in temporary buildings which were built during the war. The prison, by the way, is in very fine condition.

Mr. Kelley. Who runs the prison? General Lejeune. A marine officer.

Mr. Kelley. Who?

General Lejeune. Lieutenant Colonel South went there the 1st of last July. There has been improvement there; he has completely reorganized it.

Mr. Kelley. Instead of the prison run by Mr. Osborne. Secretary Denby. You would not know the prison now.

General Lejeune. It is the cleanest place I ever saw in my life. Mr. Kelley. That remark has no reference to the time when Mr. Osborne ran it?

General Lejeune. I never saw it at that time. Mr. Kelley. Who did you say was in charge?

General Lejeune. Lieutenant Colonel South, who was the fleet marine officer of the Atlantic Fleet with Admiral Wilson, and when Admiral Wilson was detached, on Admiral Wilson's recommendation. Colonel South was ordered to take command of the prison.

Mr. Kelley. Do they work in the yard?

General Lejeune. Yes; they work in the yard.

Mr. Kelley. Performing useful labor?

General Lejeune. Yes, sir; but not in competition with civil labor. That is, they do no skilled work. They do outdoor work, and then they do a tremendous amount of work for themselves. They make clothing and shoes and repair shoes. Colonel South has effected a saving in the upkeep of the prison, in the equipment, shoes, gloves which they have to use in cold weather, that will amount this year to about \$55,000, by developing the work inside of the prison.

Mr. Kelley. What is the average length of time that the boys are

kept in prison?

General Lejeune. From six months up to several years. there are very long terms of imprisonment given to men who have committed crimes, they are sent, under the Secretary's orders, to the United States prisons at Atlanta and San Quentin.

Mr. Kelley. These are mostly short-term prisoners?

General Lejeune. These are military prisoners who have committed military offenses.

Mr. Kelley. What about the criminals? General Lejeune. They are kept in cells. The men out of cells are all right. Colonel Smith has a system that when new prisoners come to the prison they are put in cells for a certain length of time and then he releases them on probation and puts them in these temporary buildings: 100 men will live in a building, under conditions very similar to the conditions under which the enlisted men live in barracks, except that they are kept within the prison inclosure.

Mr. Kelley. They are worked in groups of five?

General Lejeune. Yes, sir.

Mr. Kelley. And there is a guard with every five?

General Lejeune. It depends on the class of work. If they digging ditches or are working together, two or three guards will ith a large group of prisoners. If they send two or three men o do a job, they always have one sentinel. It varies according to class of work.

r. Kelley. You include in the navy-yard group the base at

ris Island?

eneral Lejeune. No, sir; that is carried as a separate group—ied under permanent detachments.

IANENT DETACHMENTS FOR TRAINING STATIONS, RECRUITING SERVICE, HEADQUARTERS, STAFF OFFICES, SUPPLY DEPOTS, ETC.

r. Kelley. Under "Permanent detachments for training stass, recruiting service, headquarters, staff offices, supply depots ine Corps Institute, Quantico and San Diego, and marine band," is 2,469. Quantico should not be in there. In in the corps Institute, and I

EXPEDITIONARY FORCE EAST COAST-QUANTICO.

r. Kelley. You have down below that "Expeditionary force, coast, 3.078." which seems to be the number at Quantico in an-

r place.

neral Lejeune. Yes, sir. The permanent detachment at Quanconsists of the men who are doing such work as running the r plant, the water works, also the carpenters, painters, plumbers, ricians, and the force necessary in the supply depot and the comary.

r. Kelley. You have post permanent detachments 457?

neral Lejeune. Yes, sir.

r. Kelley. The Third Brigade and Fourth Brigades, 3,078? neral Lejeune. The whole force of the Third and Fourth Bris 3,078. They are the men we have available for an emergency. Kelley. The 3,078, what do you call them, the expeditionary

east coast?

neral Lejeune. Yes, sir.

r. Kelley. In the item of post permanent detachment you have ided Quantico?

neral Lejeune. Yes, sir.

r. Kelley. It should not be included? neral Lejeune. Yes, sir; 457.

PARRIS ISLAND.

. Kelley. You have 1,960 at Parris Island? neral Lejeune. That includes recruits under training.

. Kelley. One thousand two hundred and twenty recruits and post organization.
neral Lejeune. The 710 is the permanent force there. That

neral Lejeune. The 710 is the permanent force there. That des the men who run the post, just as the men do at Quantico, the prison detachment. We have another naval prison down

. Kelley. Is that why you have to have so many more than at stico?

General Lejeune. Yes, sir. That includes the detail of men who drill the recruits. We have a permanent detail of men who take over the recruits and carry them through their period of training of 10 or 12 weeks.

Mr. Kelley. You only have 457 permanent detachment at Quantico with 3,078!

General Lejeune. The officers and noncommissioned officers who belong to the 3,078 train those men. At Parris Island we have drill sergeants and drill corporals who take the recruits when they come in. They are considered a part of the permanent detachment. We do not have to do that at Quantico. The noncommissioned officers are with the privates in the companies. We have to cut the permanent detachment down by about 500. We have very recently taken off 100.

FOREIGN SERVICE-SAN DOMINGO.

Mr. Kelley. You have 5.921 in foreign service?

General Lejeune. They are the garrisons.

Mr. Kelley. Are you going to bring any of those home this com-

ing year?

General Lejeune. So far as I know, Mr. Kelley, it is the announced policy of the President of the United States to withdraw from Santo Domingo. That has been published and is well known and so I am not violating any official confidence as to his policy of the policy of the administration. When that goes into effect, when that arrangement can be made, naturally when the Government comes home the marines will come home. In that event we could reduce the Marine Corps.

Mr. Kelley. Two thousand two hundred and ninety-one?

General Lejeune. Yes, sir.

Mr. Davis. How many have you there now?

General LEJEUNE. Two thousand two hundred and ninety-one is the actual number.

HAITI.

Secretary Denby. And about 1,700 in Haiti.

General Lejeune. One thousand six hundred and ninety-six, to be exact.

Mr. Kelley. How about Haiti?

General LEJEUNE. In Haiti the force is about 1,700, and it may be possible to reduce that force one or two hundred. The force we have this year has an average strength of 21,000 men, and we are submitting estimates for 20,000 men. In order to conform to your wishes to bring our force down as much as we can, I should say that we could come down to 19,500 men, with the understanding and upon the express condition that if the force in San Domingo can be wholly withdrawn by administrative action, we will further reduce the Marine Corps to 18,000. In other words, in order to cut down to 19,500 men, we will have to reduce the force at Quantico and elsewhere. Then, if we withdraw the entire force from San Domingo during the coming year, by the Secretary's order or by the President's order, we will bring the number down to 18,000 men.

REENLISTMENTS-EXPIRATIONS OF ENLISTMENTS.

Mr. Kelley. Do you think it is necessary to have 1,500 new re-

cruits under training next year?

General Lejeune. During the coming year, based on our estimate of 20,000 men, we will have to enlist fully 12,000 men. That is due to the fact that two years ago we enlisted men for two years and secured a great many such enlistments. On the 1st of July, 1920, the corps was under 16,000 men, and we made a great drive for recruits during the following six months, and that brought us up to about 22,000 men. Now, those men were 2-year men. Those enlistments not only brought the corps up, but it made good the losses from discharges and other causes. Therefore during the 12 months following July 1, 1922, we will have to replace between twelve and thirteen thousand men.

Mr. Kelley. What percentage of them will reenlist?

General Lejeune. The percentage runs along about 25 or 30 per cent.

Mr. Kelley. Is it no more than that, or have you the exact figures?

General Richards. I have only the figures for the number of men to be discharged during the fiscal year, that number being 12,406.

Mr. Kelley. How many do you estimate will come back or reenlist?

General Richards. Our estimates run about one man in four.

Mr. Kelley. It is very much higher than that in the Navy. The reenlistments are about 60 per cent in the Navy.

General Richards. I can not draw any comparison.

Mr. Kelley. I do not see why you do not get more reenlistments. General Lejeune. I think this year we will get about 2,500 reen-

Mr. Kelley. How many expirations of enlistment will you have? General Lejeune. We are enlisting this fiscal year about 7,800

General Richards. We have estimated for honorable discharge gratuities, which are contingent upon reenlistment, for 2,233 men. That is an estimate based upon experience. Of course, sometimes there is a difference due to the economic condition of the country.

Mr. Kelley. That represents the number actually discharged? General Richards. That represents the number of discharged men who we estimate will reenlist.

Mr. Kelley. How many discharges are you estimating?

General RICHARDS. We expect to discharge 12,400 men. General Lejeune. A good many of that 12,000 will go out upon medical survey and for other reasons. There are about 10,000 men to be discharged because of the expiration of enlistments. We always have a constant drain of men on account of the tropical service and discharges upon medical surveys, and, also, on account of men discharged by court-martial, men discharged as undesirable; a small number of men who desert, and a small number of men discharged on account of extreme financial dependency at their homes. Therefore, there is a constant flow of men out of the service, in addition to

the men who have completed their enlistments. Of course, the figure of 1.550 under training is subject to change, but it has been cut down Our original figures last year were 2,500.

Mr. Kelley. How long do you keep them down there?

General Lejeune. About 10 weeks.

Mr. Kelley. You then bring them to Quantico?

General Lejeune. We then send them to Quantico, to Haiti, Sa Domingo, aboard ship, or wherever they are needed.

Mr. Kelley. How long will they stay at Quantico?

General Lejeune. There is no definite fixed time of service then That is our reservoir, where they come in and go out. Men com home from Haiti and San Domingo, and a great many of them at sent to Quantico.

Mr. Kelley. A difference of $1{,}000$ marines there would not affer

the plans down there!

General Lejeune. Yes, sir.

Mr. Kelley. How would it affect them? General Lejeune. We have got to have an emergency force and mobile force in readiness.

Mr. Kelley. It would not make much difference whether it w

five, four, or three thousand.

Secretary Denby. It is simply a question of amounts. For i stance, at the Cabinet meeting when the Post Office Departme matter came up. I was asked whether or not marines could be fu nished, and I was able to say instantly that they could be furnish up to 4,000. As a matter of fact, 2,800 were taken. Then so time ago 400 were diverted for Central American service.

Mr. Kelley. You have never had an emergency that would ta

them all?

Secretary Denby. Not yet.

Mr. Kelley. You have never had such an emergency in the pas

Secretary Denby. Not that I know of. General Lejeune. Before the World War there were a number occasions when it was necessary to utilize every available marine f expeditionary duty. Of this 21,000 men—and this table is based 21,000 men—you will notice that 3,078 are in that expeditionary for and it requires a big cut to bring the number down to 19,500,

Mr. Kelley. You cut all of the stations, I imagine?

General Lejeune. You would have to cut down there too, and you took off another 1,000, they would all have to come from Qua tico, or if you took off another 500, they would have to come from there.

Mr. Kelley. Suppose you had 2,000 at Quantico, with all the

other stations filled up?

General Lejeune. This figure of 19,500 is reached by taking 130 off from that table.

Mr. Kelley. Some would have to come out of Quantico in order!

bring it down to 19,500?

Gen. LEJEUNE. Yes, sir; and we would have to revise all the tables. They are based on 21,000, and every further reduction th is made will necessitate another revision of the tables, of course.

NUMBER OF MARINES AT SAN DIEGO.

Mr. Kelley. How many marines do you have at San Diego? General Lejeune. We have built up a small west coast force there of about 800 men. We have not got them there yet. They will be called the west coast expeditionary force.

Mr. Kelley. They do not appear in the table?

General LEJEUNE. Yes, sir.

Mr. Kelley. There are 880 for that service?

General Lejeune. Yes, sir.

RESERVES.

Mr. Kelley. That leaves about 4,000 in your pool or reserves? General LEJEUNE. Yes, sir.

Mr. Kelley. Do you not think that is a pretty large number? General Lejeune. No, sir.

Mr. Kelley. Is not that a pretty large number, with all the navy yards along the Pacific coast? It is protected pretty well, is it not?

General Lejeune. We have been getting those men together by cutting down at other places. We still have to get them together at San Diego.

Mr. Kelley. What are these casual detachments?

General Lejeune. That is the number based upon actual experience estimated to be en route to and from the Philippines, the Far East, Haiti, San Domingo, and the number sick in hospitals, etc.

Mr. Kelley. These are replacements?

General Lejeune. No. sir.

Mr. Kelley. I thought you would be the last man to come up for replacements.

General Lejeune. They are not replacements, but they are men

away from their stations.

Mr. Kelley. They are coming and going?

General Lejeune. Yes, sir: I think that is a pretty small number: 880.

Mr. Kelley. Of course we could cut them off.

General Lejeune. That would be 880 men taken out of the force, according to the experience of past years. That includes men sent home, men traveling back and forth, prisoners, and the sick in hospitals.

Mr. Kelley. What do you do with the men who have been in the

Post Office service?

General Lefeune. They come back to Quantico, and they are included in the list.

Mr. Kelley. You did not have so many at Quantico when these men were in the Post Office service?

General Lefeune. No, sir; the force was greatly reduced.

Mr. Kelley. That left about 1,000 down there?

General Lejeune. Yes, sir.

Mr. Kelley. Of course, we would not want any replacements at Quantico or at Parris Island.

General Lejeune. No. sir. The men that are sick in hospitals or the men who come home sick from San Domingo and Haiti will stay with us only a month or a week until the doctors transfer them to the Veterans' Bureau. They are carried in the casual detachments.

NUMBER OF MEN ASKED FOR 1923.

Mr. Kelley. What you are asking for is 19,000 men?

General Lejeune. 19,500. That means that if the force at San

Domingo is withdrawn we will come down to 18,000.

Mr. Kelley. Could we not make a little further allowance on account of San Domingo and Haiti and cut off these replacements!

General Lejeune. We took 1,500 off these tables.

Mr. Kelley. You have 21,000? General Lejeune. Yes, sir.

Mr. Kelley. So you are taking off 1,500 there. Now, suppose we took off the 800 for replacements?

General Lejeune. We could not do that. We will have to have

them.

Mr. Kelley. Do you not think we could reduce them by that number! That would be a reduction of 2,300 on account of those two items. Could you not stand a shrinkage of 1,200 more?

General Lejeune. No, sir; unless you want to close up Quantico. Mr. Kelley. If you took these 1.500 out of Quantico, that would leave 1.500 down there!

General Lejeune. Yes, sir.

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Mr. Kelley. Suppose you shrunk at the navy yards by, say, 10 per cent, and then out there at Guam you could make a reduction.

General Lejeune. I do not know. Secretary Denby. We can not take the garrison out of there without the approval of the State Department.

General Lejeune. That is a part of the treaty now. Secretary Denby. It keeps fluctuating, of course.

Mr. Kelley, Suppose you took out 5 or 10 per cent at the navy yards where they are not operating at full blast, and then brought home marines from Guam, Haiti, and other places. You could make up 1.200 there.

General Lejeune. The whole matter is in the hands of the committee, and we will do the best we can with what you give us; but I can not admit and do not admit that we can do the things the Marine Corps is supposed to do with less than 19,500 men, unless some of those duties are abolished, like the work in San Domingo. When we bring home the men from San Domingo we can come down to 18,000.

Mr. Kelley. You would not probably replace anybody at Quantities or anybody at Parris Island, because they are in the student class. and if one got sick the place would be empty.

Secretary Denry. You do not want any empty places in a military esta

shi . You would not replace anybody in San Domingo or KEL

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nen in transf men brought

ack from those places, and every transport brings them back. It ncludes men who are sick and the prisoners.

Mr. Kelley. I know there are quite a number of men that are not vailable at the particular moment for service, because they are either

oing into service or coming away from service, or are sick.

General Lejeune. Yes, sir; or men who have deserted or are abent without leave, and are brought back by the police. They are married as part of our strength, and will be a part of the corps preminary to going to prison, but they are not marines at all, because bey will never be out again with a rifle on their shoulders.

Mr. Kelley. There are 3,500 at Quantico-

General Lejeune (interposing). We have not taken anybody at **Quantico** in the casuals detachment.

Mr. Kelley. You figure on 8 per cent at Quantico and Paris sland-

General Lejeune (interposing). We have left those places out.

Mr. Kelley. At Paris Island there are about 2,000?

General Lejeune. Yes, sir.

Mr. Kelley. You will not need to replace those boys at navy yards? General Lejeune. We have cut down their detachments. at them to the actual men needed for the duty. For instance, in York the other day the fleet came in and landed a lot of sick the hospital. Now, they manifestly should not be carried as a part of the strength of the New York Navy Yard.

Mr. Kelley. Do you not think that in these detachments you could un short by the number that are not available? For instance, at **Lant**o Domingo, if you had 2,000 or 2,200 and had to bring home 50

nd sent 50 down there, that would make it run 2,040?

General Lejeune. We will cut down San Domingo according to hese figures. You ought to see those detachments. The men are ex-•osed there to bad climatic conditions and must suffer privations.

Mr. Davis. In the case of San Domingo I suppose the danger to

he health of the men is greater than at almost any place?

General Lejeune. Yes, sir; there is a great deal of malaria down here. Taking the entire force in Haiti and San Domingo the igures show a large number of men unfit for duty. The small de**n**chments are far in the interior, and it requires a large number of nen to keep them supplied. You should see the difficulties we have n supplying those men who are staying up there in the valleys and n the mountains. For instance, in order to supply the men staioned at Hinche, we have to carry the stores from Port Au Prince w water to a town called Gonaives and then by rail to another little own, then by truck to some other place, and then by pack train to he camp. We have to unload and reload four or five times, and it **akes** many men to supply the troops in the interior.

Mr. Davis. Is it or is it not a fact that the marines, as a body, are

ngaged almost all the time, both in war and in peace?

General Lejeune. They are. We have made our estimate upon he basis of what will be required of the men during times of peace. nd we have not made any estimate of what we would need in case f war. We are trying to base our estimates, and we have based our stimates, on the need of men in peace time.

Mr. Davis. Without saying anything about the busy life of the - ren in the Army or in the Navy, from the experience and observation I have had, the Marine Corps is the busiest lot of men we have in the public service. In other words, the Marine Corps seems to be occupied practically all the time.

General Lejeune. We are looking for an opportunity to make our

selves useful.

Mr. Davis. They are doing something all the time.

General Lejeune. Yes, sir; you are right.

Mr. Kelley. General, of course I realize that there is no logical percentage of the Marine Corps to the enlisted men of the Navy, as those duties that you mention are separate and apart entirely from the Navy, except as to those on ships, but we have been trying to run along a good many years upon the basis of one-fifth of the enlisted men of the Navy for the Marine Corps. However, with all this heavy drain on you from Central America and the extra duty of guarding navy yards, I suppose what would be the reasonable thing would beto put down the number that is necessary to perform those functions and give you whatever that is. At the same time, we would not want to strain that relationship too far. If you had 17,500 men, that would be about 25 per cent of what we are thinking of giving the Nav. I will say that in all my experience here I do not think I ever knew a military man who sought more to carry out the desire of Congress and succeeded at it any better than you have, and that counts very much in your favor at this time. Just what we will do, we will have to work out. I want that statement to appear in print.

General Lejeune. I appreciate that very much. I have tried to conform to the wishes of Congress, and will continue to do so.

PAY OF OFFICERS, ACTIVE AND RESERVE LIST.

Mr. Kelley. We will take up the item for pay of officers, active and reserve list.

General RICHARDS. These estimates, Mr. Chairman, are for an average strength of the Marine Corps of 20,000 enlisted men.

Mr. Kelley. The \$4.048,462.18 printed in the bill?

General RICHARDS. For the officers. There is a decrease in the item for pay of officers of \$337,733.83. That is explained by a decrease in the base pay and a reduction from last year's estimates of 3 brigadier generals, 1 colonel, 34 warrant officers, and of 100 second lieutenants.

Mr. Kelley. For the pay of officers you are asking \$4,048,462.18.

General RICHARDS. That is right, sir.

Mr. Kelley. Is that based on the existing law which will expire

the 1st of July or the previous law?

General RICHARDS. It includes the bonus allowed by the existing law which, in fact, does expire on the 1st of July, but these calculations assume that that bonus, or something similar, will be provided to continue.

Mr. Kelley. That will probably be done or something like that will probably be done, but it will not be done by the time we pass this bill, so I think we will have to refigure this on the basis of the old law. How much would that item be on the basis of the old law!

General RICHARDS. The amount necessary to continue the existing bonus for officers only is \$673,620. I have also figured the cost in pay for the so-called McKenzie bill.

Mr. Kelley. We will not put that in, because we will handle that as a deficiency after it is passed. The only thing we would be authorized to do would be to carry the pay as we understand the law will be after the 1st of July, and then whatever increase there is will be carried later in the year in some other bill. How much did you say will come off of that?

General Richards. \$673,620.

Mr. Kelley. That makes \$3,374,842.18?

General RICHARDS. Yes, sir.

Mr. Kelley. You are sure that is the amount you want for the officers' pay?

General RICHARDS. Yes; that is the exact figure, and I will file with my hearing the letter of explanation which contains that figure.

Mr. Kelley. I understood you to say at the beginning that the \$4,048,462.18 was-

General Richards (interposing). \$337,733.83 less than what was asked for last year or less than what is appropriated.

Mr. Kelley. And that was due to the reasons you stated in your answer a few moments ago?

General RICHARDS. Yes. We are asking for less officers. Mr. Kelley. How many less officers are you asking for?

General RICHARDS. Three brigadier generals, 1 colonel, 34 warrant officers, and a shortage of 100 second lieutenants.

Mr. Kelley. Less than you had last year?

General Richards. Yes, sir. General Lejeune. Less than we estimated for last year. We estimated for the full number of officers for this year. We are going to turn in \$200,000; we have already reported a surplus of \$200,000 that we are going to turn in.

Mr. Kelley. This is for the exact number of officers you have? General Lejeune. That we expect to have next year.

Mr. Kelley. And is it the exact number you have now?

General Lejeune. No, sir. We have 30 additional officers whom we are pledged to appoint: they have passed examinations, and they were gathered together a year ago and have been under a course of instruction, so we have included them in next year's estimate.

Mr. Kelley. I think it would be a good thing to put in the rec-

ord a table showing the number of officers in each rank.

General RICHARDS. I have here, indexed, the full details of the arithmetical calculations by which these estimates were arrived at, and I would like to make those a part of the hearings, for they answer this as well as any other question that may arise.

Mr. Kelley. All right.

General Lejeune. Those 30 young men will be nominated within a few days, as soon as they finish their physical examinations. has been the practice for a number of years to appoint some officers, to the Marine Corps from the Naval Academy of each graduating class.

Mr. Kelley. You have the details making up the \$3,374,842.18?

General Richards. Yes, sir.

Mr. Kelley. And the amount of pay each group receives? General Richards. Yes. sir.

PERCENTAGE OF ACADEMY GRADUATES ASSIGNED TO MARINE CORPS.

Mr. Byrnes. What percentage of the Academy graduates are

generally assigned to the Marine Corps?

General Lejeune. Up to this year the needs of the line of the Navy have been so great that we have not gotten very many. Beginning in 1915 they began to make some appointments from among the graduates of the Naval Academy, but prior to that time there had been no appointments for 16 years. To-day there are about 75 Naval Academy graduates among the officers of the Marine Corps, and we hope to get this year, to help the Naval Academy and help us, about 25. That is the number we would like to get.

NUMBER OF COMMISSIONED OFFICERS.

Mr. Kelley. What is the total number of officers in the Marine Corps now?

General Lejeune. Nine hundred and forty-two.

General RICHARDS. These estimates include all commissioned officers, 58 marine gunners, 58 quartermaster clerks, and 42 pay clerks, making a total of 1,154.

General Lejeune. The 942 represents the actual commissioned

officers on the active list of the Marine Corps to-day.

Mr. Kelley. How many commissioned officers are you asking for next year?

General Lejeune. That is what we are asking for, a total of 1.134 commissioned and warrant officers.

Secretary Denby. Do your 900 include commissioned and warrant officers?

General Lejeune. No, sir; the 942 includes the commissioned

officers who are in the corps to-day.

Mr. Kelley. And you are asking the same number for next year!

General Lejeune. We are going to appoint 30 more within a few days.

Mr. Kelley. Will any go out?

General Lejeune. Only from the usual casualties.

Mr. Kelley. Then the number will be 972?

General Lejeune. Yes: and then we expect to have about 25 graduates from the Naval Academy appointed.

NUMBER OF WARRANT OFFICERS AND PAY CLERKS.

Mr. Kelley. How many warrant officers and pay clerks did you say you have?

General Richards. One hundred and fifty-eight in all, sir.

Mr. Kelley. And that is the number you are asking for next year! General Richards. Yes, sir.

Mr. Kelley. And you have the same number this year?

General Richards. What I am asking for, General Lejeune, are 996 commissioned officers and 158 warrant officers.

Mr. Kelley. One hundred and fifty-eight warrant officers? General Richards. Yes, sir.

Mr. Kelley. How many warrant officers did you have this year!

eral Richards. I have not the details of the calculations for ear with me, only a record of the differences between this year

Kelley. Have you increased those officers?

ieral Richards. No, sir; there are less this year than last year. lifference is this: Three brigadier generals, 1 colonel, 34 warofficers, and 100 second lieutenants. We have that number less ear than we estimated for last year.

Kelley. What amount of this is for the reserve list? neral Richards. For the reserve list there are 482 provisional s of all ranks who draw \$12 a year; there is what is known as eet reserve officers confirmed—one major, one captain, and second lieutenants. The total of the item that is in there for serve amounts to \$8,263.18, a very small amount.

PAY OF OFFICERS ON RETIRED LIST.

e next item is for officers on the retired list. As it was made gave the grades that were on the retired list when the estimate nade up last September, and the total cost is \$379,047.50. It les a contingent fund of \$35,000, which was to allow for any ges in the retired list from the time it was made up until the year is closed.

. Kelley. Somebody might be retired because of wounds.

neral Richards. Wounds, disabilities, or voluntary retirements the law. It also includes any increased pay that might be to any retired officer assigned to active duty. The present v is not to assign any retired officer to active duty. So the 00 is always included, but of course if there are no changes it

. Kelley. If that were not included and some officers had to be d during the year for disabilities you would not have any

v with which to pay them?

neral RICHARDS. Possibly we would not have any money with 1 to pay them if the vacancies on the active list were filled.

. Kelley. I notice some changes in the text. You have three dier generals instead of four. Is that due to somebody's death? neral Richards. Yes.

neral Lejeune. General Pope died, for one.

. Kelley. The changes you have made in the text are made ly to conform to the actual situation as it stands now? neral Lejeune. Yes, sir.

PAY OF ENLISTED MEN ON ACTIVE AND RESERVE LIST.

Kelley. The next item is "For pay of enlisted men." You nave to figure that over, will you not? neral RICHARDS. In order to make it clear I have here the items were expended in 1921. Of course, that pay of enlisted men ide up of the active and reserve list, base pay, foreign-service longevity pay, aviation pay, pay of court-martial prisoners, l allowance on discharge, traveling expenses, interest on des. cooks' and messmen's pay, etc.; all of the details are given, I have endeavored to illuminate the committee by analyzing everything that was expended last year under those items and or spondingly what is in this estimate for the same items.

Mr. Kelley. And you will put that in the record?

General Richards. That will all go in the record; ves. sir. Mr. Kelley. That is based upon the increased pay contained the 1920 act?

General RICHARDS. Yes, sir; in the case of the enlisted men added that increase right in with their regular pay, so I will ! to give you a separate figure as to the bonus for enlisted men.

Mr. Kelley. When you get that figured out will you telephon

the exact amount?

General Richards. Yes, sir.

Mr. Kelley. I suppose this is based on 20,000 men?

General Richards. On 20,000 men, and I have also gone fur and broken up this whole appropriation into its several items put a figure there so that in the event the committee should de to make a reduction they would know exactly how to apply that. that I will put it in the record.

Mr. Kelley. That will show us how much of a reduction can

made per thousand men.

General Richards. Yes: it is, roughly, about \$462,650.50 for 1. men, but it is not safe to go much further, because when you much more than 1,000 you have got to take care of overhead, and same proposition will not follow.

Mr. Davis. Your overhead will be virtually the same, even if

do cut it down 1,000.

General Richards. That figure would be all right for 1,000, a it would be approximately all right for 2,000, but when it goes i 3,000 or 4,000 then there are other elements that enter into it wh must be considered.

Mr. Kelley. So we will have it here and to be used when we or to it, I wish you would send us the pay under this item for 19. men, 18,000 men, and 17,500 men on the basis of the old pay.

General RICHARDS. I will do that. General Lejeune. I might interject here that last year when appropriated for 21,000 men we reduced the noncommissioned cers proportionately so as to get down to those figures. We did make any promotions until the reduction was effected, and we be to-day the proper proportion of noncommissioned officers for 21 men.

Mr. Kelley. Suppose you first reduce this \$11.568.968.84 to w it should be based on the old rate, and then, with that figure t basis, determine what 19,000, 18,000, and 17,500 men will be.

General RICHARDS, Very well. There is in that pay of enlimen \$137,306,32 for the reserve. These details are all shown in sheet which I will file with the hearing.

General Lejeune. That includes the fleet reserve?

General Richards. It includes the fleet reserve in classes 1-C.1 and the enrolled fleet confirmed.

PAY ALLOWANCES FOR ENLISTED MEN ON RETIRED LIST.

The next item is for pay and allowances of enlisted men on retired list. There is \$227.046.40 for their pay. You will see! there is a list of the different grades, including a few eligibles

rement, and the bill gives this list. I wish to add that there is contingent fund for men who might be placed on the retired list these calculations, only the grades on the retired list at the time estimates were made up last September.

Ir. Kelley. Does that embarrass you at all?

deneral Richards. It does not.

Ir. Kelley. The changes you have made in the text of the bill y conform to the exact number that are on this list now?

ieneral Richards. Yes.

Ir. Kelley. There is new language in this item, "one second der of band."

deneral Richards. He has already been placed on the retired list. Mr. Kelley. I wonder why that is in italics.

ieneral Lejeune. He just retired a few months ago.

Mr. Kelley. And he is entitled under the law to be retired?

deneral Lejeune. Yes, sir; he finished his 30 years' service about months ago and went on the retired list.

Ir. Kelley. The pay of the men on the retired list was not afted by the temporary increase in pay, was it?

reneral Lejeune. They all get their base pay on the retired list.

Ir. Kelley. And not the increased rates?

teneral Lejeune. No; not the bonus. teneral Richards. There is no bonus for the retired men.

Ir. Kelley. We increased the pay, but when they retire do they re on their base pay?

teneral Richards. They retire on their regular rate of pay; the

us is not carried to the retired list.

ecretary Denby. But they are retired at three-quarters of the manent rate of pay they were getting at the date of retirement? teneral Richards. Yes, sir. I will answer that question definitely

I am quite satisfied that the bonus did not go to the retired list. Ir. Kelley. If that were true this amount would be smaller. General RICHARDS. I will answer that question specifically, but I ik the bonus is only given in the case of the commissioned officers the retired list who are on active duty, and only while on active Neither the retired officer nor retired enlisted man receives er the law the so-called bonus of 1920.

deneral Lejeune. If it was in the form of increased pay, they ald get their increased pay; but if it was in the form of a bonus,

v would not get it.

Ir. Kelley. If that were done, it would have the effect of some n going on the retired list at one rate of pay and others at ther rate of pay, and I do not think that was the intention. ecretary Denny. I think the retired pay is based on the base pay. beneral RICHARDS. The old pay, excluding bonus.

Ir. Kelley. And not the 1920 pay?

ieneral Richards. No. sir; not the bonus.

Ir. Kelley. Do you know on which these figures were based? feneral Richards. The 1920 act providing bonus does not enter these figures for retired officers or retired enlisted men; not ıll.

[r. Kelley. However, you had better look into it so as to make

General Richams. That is my answer, and while I do not this will have to modify it I will make the inquiry as you wish.

Note.—As to the pay of officers and enlisted men when retired, to an the question specifically, upon inquiry I learn that section 13 of the approved May 18, 1920, specifically provides:

"That the increases provided in this act shall not enter into the comput of the retired pay of officers or enlisted men who may be retired pris July 1, 1922."

UNDRAWN CLOTHING.

Mr. Kelley. The next item is undrawn clothing.

General Richards. Yes: we have increased that, and the increase to pay the savings that come to the enlisted force under the

system or, rather, the restoration of the old system.

General Lejeune. You see there are some men who overdrawth clothing allowance and that is taken out of their pay; then there other men who are careful and take good care of their clothing do not draw all of it; they get the benefit of that and the Governagets a benefit by a saving of \$1.332,000 in the actual amount of ching issued to the men during the year.

Mr. Kelley. Just tell me about that again.

General Lejeune. We make a money allotment instead of given men all the clothing they think they need, as we did during war; at that time we issued clothing gratuitously as they neede which resulted in great extravagance and great waste; so, on a uary 1, 1921, we returned to the system which was in vogue priously the World War. That system was based on making a money all ance for the clothing drawn each year by each man. We figured the requirements for a good man, the average man, and we gave a money allowance. Now, all the clothing drawn by that man dut the year is charged against his money allowance; if he exceeds money allowance, the value of clothing issued to him is charagainst his pay account, and the Government gets it back; if he do not exceed it, if he is very careful and saves his clothing, when he discharged he gets paid for it. That is as old as the military serv

Mr. Kelley. Because these men are so careful you must ret

\$250,000 to them in cash next year?

General Lejeune. Yes, sir; but we get back a saving of \$1,3324 Secretary Densy. It is the difference between what it cost to them the thing and give them the money to buy the thing. They allowed barely enough to get through and in some instances f save money. What they do save they get credit for it and are p

Mr. Kelley. What is the clothing allowance per man? General Lejeune. \$115 per annum. That is the first enlistment the first year of the man's first enlistment. They do not get! other years.

Mr. Kelley. How much do they get other years? General McCawley. \$47.78 on second and succeeding years of

r. Kelley. The surplus that remains from year to year is or ve until t ir distments pire?

The sulposid has a man by

up their aco

ieneral McCawley. Yes, sir.

Ir. Kelley. How many men will be entitled to this undrawn

thing allowance during the coming year?

reneral Richards. It was suspended on July 14, 1917. For the rending June 30, 1917, there were 2,861 men discharged, with an rage saving of \$37.44 for each man discharged. That does not an that they all drew the average; we can not, however, give the ails without considerable labor and research. There were some n who were overdrawn, who paid money to the Government at charge.

Ir. Kelley. That does not go into the Treasury of the United

tes?

deneral Richards. No, sir.

Ir. Kelley. It goes to the credit of the Marine Corps?

deneral Richards. Yes, sir.

Ir. Kelley. How many do you estimate will be entitled to draw it year?

Feneral Richards. For the 12,406 discharged we allowed \$20 each

a credit for undrawn clothing.

Ir. Kelley. That is just a fair guess?

That gives \$248,000, and we put down 0,000.

Secretary Denby. Have you any estimate of the number of men

o have been paid out of their own pay for clothing?

reneral Richards. It is really difficult to give you that, Mr. Secary, because it involves such detail. Suppose a man during his t year's enlistment does overdraw, it is immediately adjusted and triged to his account. If in the next year the excess of clothing he so drawn and paid for enables him to save in subsequent years, in some cases it does, what is really being restored to him at distrige is pay that was withheld from him to satisfy that overdraft clothing in the earlier days of his enlistment.

Secretary Denby. You said that only honorably discharged men re-

ved whatever they had managed to save?

General Richards. Any man, honorably or dishonorably distinged.

deneral McCawley. I made that mistake.

Mr. Kelley. You estimate on 12.406 expirations?

Jeneral Richards. We estimated that because we have quite a

nber of short-term men enlisted for two years.

General Lejeune. Next year will be the big year for discharges, ter that the number will come down. That will be the last hard it, because we have done away with the two-year enlistments. Frun about 200 a month of men who are separated from the service reasons other than expiration of enlistment. The 200 include dical surveys, summary court discharges, general court-martial charges, undesirable discharges, and desertions. It amounts to 00 or 2,500 men a year.

Ir. Kelley. For what besides clothing is this money spent? Secretary Densy. We have to remember the nature of the man's y. A man doing yeoman duty would not wear out his clothing as ckly as a man on some other branch of the detachment, doing other kind of work. You average it up and it makes a very modest owance.

Mr. Kelley. It is what they allow in the Army?

General McCawley. Yes, sir.

Mr. Kelley. How many? General McCawley. I could tell you very easily by reference to the Army order on the subject. Our allowance table of clothing is based entirely on the Army allowance with some modifications. The service of the Marine Corps requires some slight variations. It is based generally on the Army table. Our allowance for clothing in 1921 was \$149.49; that is, for the first year of enlistment, and this

year it is \$115.24, a reduction of over \$34.

Mr. Kelley. Clothing must be nearly 50 per cent off?

General McCawley. It is going down, but I would not say it is that much. We have not bought very much clothing lately.

MILEAGE.

Mr. Kelley. We will take up mileage.

General Richards. This estimate is \$15,000 less than the amount asked for last year.

Mr. Kelley. How much did you use last year?

General Richards. We used last year \$98,667. That is very carefully watched.

Mr. Kelley. How much have you used up to date of the 1922 appropriation?

General RICHARDS. I can very easily give you the figure up to February 28—it is \$65,441.28.

Mr. Kelley. You have not used half of the \$150,000 ?

General RICHARDS. No. sir.

Mr. Kelley. How much did you use of the 1921 appropriation! General Richards. \$98,667.28.

Mr. Kelley. Did you have fewer officers then or was the travel

General RICHARDS. We had a few more officers then.

General Lejeune. No: about the same. We have had an annual appropriation of \$150,000 and we cut it down for next year to \$135,000. We have been turning in a surplus.

Mr. Kelley. Possibly we might make it \$100,000?

General Lejeune. Make it \$125,000 and we will get along. Weda not like to have it too close, because we might have an emergency. We like to have a little margin. That would give us a little to turn in at the end of the year. It is a very small appropriation. We watch it very carefully, Mr. Kelley.

Mr. Kelley. What mileage do you get, the Army or Navy mileage! General Lejeune. The Navy rate.

Mr. Kelley. That is 8 cents?

General Lejeune. Yes, sir; except with this difference, that cers traveling with troops do not get mileage. In the Navy the cers do.

COMMUTATION OF QUARTERS.

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nan the approver very care for all officers

hether serving with or without troops, and includes also the comutation for the enlisted men as well, and for dependents of officers and some enlisted men. We have worked very carefully in connecon with the building program of General McCawley. I do not ink it can be safely reduced.

Mr. Kelley. How much have you spent this year?

General Richards. What was spent last year is set forth in pararaph 8 of my report. We have spent this year to February 28 ap-

roximately \$410,000.

Mr. Kelley. Please tell me how much you have spent this year? General Richards. This figure, \$410,000 to February 28, is an estinate only. I do not think, though, it will exceed \$450,000; it is at ne best a guess, for the reports are not yet in. It would be safe to av \$450,000.

Mr. Kelley. Please put in the record of the appropriation for the urrent year how much you have spent for commutation of quarters

p to February 28.

General Richards. This entry at present will be \$450,000. I may dd that for the rest of the year we will probably need \$225,000 otal estimated \$675,000, out of the \$711,100 appropriated.

Mr. Kelley. How much did you spend in 1921 for commutation

of quarters?

General Richards. At that time this particular appropriation was imited only to officers serving without troops and the expenditure ras \$114.024.80; this figure alone is of no value for the present pur-

Mr. Kelley. You can put them together?

General RICHARDS. Yes, sir. We spent from the paymaster's apropriation \$114,024.80 and General McCawley will be able to suply the figure for officers serving with troops and for the enlisted orce; a figure heretofore reported when the estimates were being ritten as \$461,180.32.

Mr. Keley. You can put them together?

General Richards. Yes, sir.

Mr. Kelley. Please put that in the record.

General Richards. Yes, sir.

Mr. Kelley. As I recollect, this was carried in two paragraphs **≥reto**fore !

General Richards. Yes, sir; up to 1922.

Mr. Kelley. And we combined them last year?

General Richards, Yes, sir.

General McCawley. For 1921 the figures show \$467,302 expended 'om quartermasters' funds under this appropriation.

Mr. Kelley. That makes \$581,326 and you are asking for \$670,000?

General Richards, Yes, sir.

Mr. Kelley. You probably will not need any more next year than

1921!

General McCawley. Commutation of quarters is purely guesswork. depends entirely upon the number of officers put in that status by der of the major general commandant. Officers who are assigned duty with troops where there are no quarters get commutation tomatically.

General RICHARDS. If an officer goes to sea his dependents commutation, and, moreover, officers and men above the grade sergeant that may be married get the allowance on field and on duty.

Mr. Kelley. If you did not use but \$581.326 in 1921 you may

need as much as \$670,000?

General Lejeune. I think that is a very close estimate. We have so many sets of quarters in the Marine Corps. The only real new for a guess is as to the number of officers aboard ship or in the who have dependents. If an officer gets married he receives comtation of quarters while at sea or in the field.

Mr. Kelley. Please put in the record the amount you spent up

the 1st of March!

General Richards, Yes, sir.

Note.---Approximtely \$450,000, or at the most \$675,000 for this year 192

PAY OF CIVIL FORCE.

Mr. Kelley. The next item is, "Pay of civil force"?

General RICHARDS. For "Pay of civil force" we are asking year \$146.611.28.

Mr. Kelley. We will take that up by paragraphs. The first is office of the major general commandant?

General Lejeune. There is no change in that item.

General RICHARDS. There is no change unless it is in Gen. Mcl

lev's department.

Mr. Kelley. There is no change in the paragraph referring to office of the paymaster. There is no change in the office of the stant and inspector. What about these changes in the office of quartermaster!

General McCawley. We are dropping out the technical engiand the draftsman and asking for clerks in their places, with increase in the total sum. It is a rearrangement. We are sa

\$100, as a matter of fact.

Mr. Kelley. Have you the clerks now?

General McCawley. No, sir: we have not the civilian cler am asking for, but there are one warrant officer and two enli men performing their duties, and they could be released at a sa of money.

Mr. Kelley. You want one more clerk at \$1.800 and two n

clerks at \$1.200 each?

General McCawley. Yes, sir: in place of the technical engine and the draftsman, whom we strike out. That saves \$100.

Mr. Kelley. Have you the technical engineer and draftsman n General McCawley. No, sir; we let them go.

Mr. Davis. You say there will be a saving of \$100?

General McCawley. Yes, sir. We need the extra clerks t

. KELL . How long has it been since you let the techn

1

CAWI : Abt 1 y

Mr. Kelley. Of course, this would have the effect of adding one

clerk at \$1,800 and two at \$1,200 each?

General McCawley. I have not appointed men in place of this engineer and draftsman because I thought we could do without them: we have not filled their places.

Mr. Kelley. Have you any enlisted men in the Quartermaster's

office !

General McCawley. Yes, sir.

Mr. Kelley. Can not you get one or two more people like that? General McCawley. General Lejeune has cut me down in the number of enlisted men to the absolute minimum. He can not spare any more men to be detailed as clerks.

Mr. Kelley. We passed a resolution when we first started in this

year, Mr. Secretary, relative to the increasing of pay or places.

Secretary Densy. That knocks out the clerks that we were talking about the other day.

Mr. Kelley. The general would not let you have the additional enlisted men?

General McCawley. No, sir.

General LEJEUNE. It is cheaper to have civilian clerks than to have enlisted men.

Mr. Kelley. General McCawley has not had these two this year,

and you say you have not had the clerks, either?

General McCawley. I have not the statutory clerks, but there is the warrant officer and two enlisted men I have referred to, who would be released if these civilian clerks were allowed.

Mr. Kelley. You have had somebody doing the work?

General McCawley. Yes, sir; but they are going to take those three men away, and if they do I can not possibly get the work done. The work of the office is such it is impossible to release those men without filling their vacancies. If we continue to provide enlisted men, it will cost more than the civilian clerks asked for.

Mr. Kelley. In the office of the assistant quartermaster at San

Francisco there is no change?

General McCawley. No, sir.

Mr. Kelley. In the office of the assistant quartermaster at Philadelphia there is no change?

General McCawley. No, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. For temporary employes in offices at marine head-

quarters and at marine posts there is no change?

General Lejeune. No, sir. I should like to have that word "temporary" stricken out, because those people have been with us for several years.

Mr. Kelley. You are not asking for any more temporary em-

ployees !

General Lejeune. No, sir; just to have the word "temporary"

stricken out.

Mr. Kelley. Was it not the intention when we put that in that a fter the war emergency was out of the way you would reduce this force again?

General Leffune, I cut it down by relieving about 150 enlisted men.

Mr. Kelley. You took out 150 enlisted men! General Legeune. Approximately that number.

ENLISTED MEN PERFORMING CLERICAL SERVICES, 1921-22.

Mr. Kelley. General, how many enlisted men were there performing clerical duties in 1921 !

General Lejeune. I do not know the exact figures.

Mr. Kelley. Please put the exact number in the record. General Richards. Yes, sir.

Mr. Kelley. And the actual number of enlisted men performing similar service now.

General Richards. Yes, sir.

General Leset ne. We can give you the exact figures.

Mr. Kelley. That explains why you want this word "temporary stricken out. How many temporary employees were there in the headquarters!

General Richards. I have a table here.

General Lejeune. Those employees have all been put under the

civil service by an Executive order.

Mr. Kelley. You would have reduced the clerks had you left the enlisted men in, but you elected to take out the enlisted men and leave the clerks in?

General Lejeune. Yes, sir.

Mr. Kelley. You have taken out as many enlisted men as there were temporary clerks?

General Leseune. More nearly twice as many.

Mr. Kelley. This practice you regard as more economical than

detailing enlisted men for this work?

General Lejeune. Yes, sir: economical in money and economical in men. We get the men with rifles in their hands instead of doing clerical work; we get a more permanent clerical force.

HIGHEST PAY OF ENLISTED MEN.

Mr. Kelley. What is the highest pay that an enlisted man in the Marine Corps gets?

General Lejeune. It depends on the length of service.

Mr. Kelley. I know, but the highest pay?

General RICHARDS. The highest is \$888. That is a sergeant major There are other things that go with it. For instance, if he goes on foreign service he gets 20 per cent more.

Mr. Kelley. If a man serves over and over, reenlists in the Marine

('orps, what is the highest pay he can get?

General RICHARDS. There are so many things to consider. Secretary DENBY. Do you mean compensation or pay!

Mr. Kelley. I mean everything. I had an idea that it ran up pretty well.

al Richards. The highest paid enlisted man of the Marine geant major or quartermaster sergeant. Under present is as follows [reading]:

> month_ \$74.00 _do____ 14.80 diem.

In addition to the above, he is entitled to:

Longevity pay.—Ten per cent of base pay for each five years' service, not to exceed 40 per cent.

Medals.—Eighty-three cents per month for each good conduct medal or bar; \$2 per month for each medal of honor or bar; \$2 per month for each distinguished service cross or bar: \$2 per month for each distinguished service medal or bar.

Foreign-shore service or sea pay .- Twenty per cent of base pay, plus permanent additions thereto; i. e., longevity pay, good conduct medals, medals of honor, distinguished service crosses or medals.

Marksmanship qualifications.—For qualification as—

Expert riflemanper month	\$5
Sharpshooterdo_	3
Marksmando	

If detailed for duty in a staff office of the corps, he is paid a subsistence allowance of \$75 per month in lieu of quarters, heat, light, and rations in kind.

If detailed on recruiting duty, he is paid, in addition to regular pay, \$1.75 per diem for subsistence. \$15 per month for commutation of quarters, and an average of \$8.80 per month for commutation of heat and light.

General Lejeune. In a few cases it goes above \$100 per month.

MARINES ASSIGNED TO NAVY DEPARTMENT.

Mr. Kelley. There are 19 men under the Chief of Naval Operations, and some of them get as high as \$1,943 a year. Why do you need 19 down there?

General Lejeune. Do you mean marines?

Mr. Kelley. Yes.

General Lejeune. Those men are in the Navy Department as guards, and they live out in town. They are doing duty as watchmen and guards for the Navy Department.

Mr. Kelley. How many men have you in the department?

General Lejeune. Those 19 men constitute the guard at the Navy Department.

Mr. Kelley. Are there any others?

General Lejeune. The others are doing clerical duty.

Mr. Kelley, How many marines have you assigned to the Navy Department?

General Lejeune. Doing clerical duty?

Mr. Kelley. All kinds of duty.

General Lejeune. I can not tell you offhand. Those 19 men you refer to do guard duty. They take the place of watchmen in the building.

Mr. Kelley Does not the Superintendent of Buildings and Grounds furnish watchmen there?

General Lejeune. I would be glad to get those men back.

Mr. Kelley. There are 19 men under the Chief of Naval Operations and 25 in the naval dispensary.

General Lejeune. They are enlisted men in the Navy.

Mr. Kelley. Why does Admiral Coontz have so many down there? General Lejeune. They have been there since I have been commandant.

Secretary Denby. That is not a large number at all to be on guard, even if the building were guarded otherwise.

Mr. Kelley. For the Chief of Naval Operations alone?

General Lejeune. They are carried under that department, but they are scattered all over the building. They are serving the General Board, the Bureau of Ordnance, and the whole Navy Building

General McCawley. They are only mustered in his office.

Secretary Denby. It is like the men attached to the shore-based submarines.

General Lejeune. There is a necessity for having somebody there to guard the building, and they have not been able to get watchmen.

That is the number left from about 200 men that we had during the war.

PAY OF MARINE CORPS TO CONSTITUTE ONE FUND.

Mr. Kelley. General Richards. I call your attention to this language on page 150 of the bill which authorizes you to disburse these various items as one fund.

General RICHARDS. Yes, sir; as one fund.

Mr. Kelley. You do not care to have that any longer, do you! General Richards. That has always been so, and we strongly advise against any change.

Mr. Kelley. I think it is subject to a point of order if anybody

made it. It would not hurt you if they made it, would it?

General Richards. Not for the retired officers, but it would hart the retired enlisted men, perhaps. Let me explain. One year, I think in 1898, through inadvertence that clause was left out. At that time we had no contingent fund to pay the salaries of officers whose retirement was not anticipated, such as we now have, and the wording of the law was different there: it was just as we now word the law that covers pay of the retired enlisted men. In 1899 when we came to expend that appropriation the grades were different from what they were when we wrote the estimates, due to changes. Officers of different grades had been retired for disability, and as a result three old retired officers who had been retired were wholly prevented from drawing any pay whatever from the Government until that clause was restored to the bill, which was done by a joint resolution. Of course, that is now provided for, in so far as the officers are concerned, but it is not provided for in so far as the retired enlisted men are concerned, and if it should happen that the retired list for enlisted men should change in any wise and that clause is omitted a great injustice may follow in cases of retired enlisted men retired in the immediate future.

Mr. Kelley. It is the practice to keep within the amount specified unless it is at some place where by operation of law you may be carried

a little outside?

General RICHARDS. We keep inside of all items of pay: particularly we keep inside on mileage. There we have discretion in moving officers around, and we always keep within the amount. However, it is not always possible to keep within the amount for commutation of quarters.

Mr. Kelley. I think they took this from the Army bill.

General Richards. We have it in both cases, i. e., not in Pay Marine Corps, alone—that is, under maintenance, Quartermaster's December 1, as well where it has produced great corporates.

I Nou saved by putting in is the r son we put it

har we l r. It was be-

ecretary Denby. I wish that could be done all the way down the

eneral Lejeune. These subheads together represent practically purpose, and you could lump the amount in one appropriation nout mentioning any of these subheads. For instance, for pay of Navy you appropriate \$136,000,000 as one sum.

eneral RICHARDS. There are some papers here I wish to file and

te part of the record of this hearing.
The statements and tables submitted by General Richards in exnation of the estimate for pay, Marine Corps, 1923, are as follows:)

Pay, civil force, Marine Corps, lump-sum appropriation \$100,000.

Employees.	Rate per annum.	Esti- mated, 1923.	Esti- mated, 1922.	Ex- pended, 1921.	Office Major General Com- mandant and adjutant and in- spector.	Office quarter- master.	Office pay- master.
visory clerksssograph operators		2 5 1	2 5 1	2 5 1 3	1 2	1 3	i
raphers	1,600.00 1,500.00 1,400.00 1,400.00	8 7 6	3 8 7 6	7 7 6	2 3 3	1 4 2	4
stenographers, and stsand typists	1, 100.00	13 13 9	13	13 12 8	5 5 5	8 3 4	5
Total	1 4. 00-5. 52	72	72	69	26	32	14
	r diem.	² \$100,000	*\$100,000 	2 \$95,000 Approxim	ately.		

timates, " Pay of the Marine Corps," 1923, including and excluding bonus.

	20,000	men.	19,500) men.	19,000 men.			
	With bonus.	Excluding bonus.	With bonus.	Excluding bonus.	With bonus.	Excluding bonus.		
ting and reserve. stired. rd men: ting and reserve. tired	379, 047, 50 11, 568, 968, 84 227, 046, 40 250, 000, 00 125, 000, 00	379, 047, 50 11, 063, 723, 24 227, 046, 40 250, 000, 00 125, 000, 00 670, 000, 00	379, 047, 50 11, 310, 012, 45 227, 046, 40 250, 000, 00 125, 000, 00 670, 000, 00	379, 047. 50 10, 817, 397. 99 227, 046. 40 250, 000. 00 125, 000. 00 670, 000. 00	379, 047. 50 11, 051, 056. 07 227, 046. 40 250, 000. 00 125, 000. 00 670, 000. 00	379,047.50 10,571,072.74 227,046.40 250,000.00 125,000.00 670,000.00		
[otal	17, 415, 136, 20	16, 236, 270. 60	17, 156, 179. 81	15, 989, 945. 35	16, 897, 223. 43	15, 743, 620. 10		

Estimates, "Pay of the Marine Corps," 1923, including and excluding Continued.

	·	18,500 men.			18,000 men.					ĺ	17,50		—)0							
	With	bonu	ıs.	Ex b	clu	din ns.	g	w	ith	bon	us.	E		udin nus.	g	W	ith !		 18.	ŀ
()(0)			_				_				_					! i				_
Officers: Acting and reserve		189		e 2 2	74	0.49	10		nιe	489	14	20	274	049	10		142	440		
Retired		.047.				047.				047				.047				047.		N),
Enlisted men:		, ., .,	٠,		٠.,		.,,,	l '	0.0,	, ., .,			1,110	, .,	,,,,	1 .	,,	1784.	~,	
Acting and reserve	10.793	.099.	68	10.3	24.	747.	49	10.	533.	. 143	.30	10.	078	.422	24	10.	274.	186.	91	9.
Retired	. 227	.046.				046.				046				046				046.		٠,
Undrawn clothing	. 250	,000.			50,	000.	00			,000			250	,000.	00	:	250,	000.	00	
Mileage	. 127	, voo.	00	1:	25,	000.	(10)		125,	,000	. ()()		125	, 000.	00	i I	l25,	000.	00	
Commutation of quar-												l				1	•			
ters		,000.				000.				,000				, 000.				000,		
Civil force	. 146	6,611.	28	1.	46,	611.	28		146,	611	. 28		146	611.	28	i i	146.	611.	2	
Total	16,638	, 267.	04	15, 49	97,	294.	85	16,	379	310	66	15,	250	, 969.	60	16,	20,	354.	27 1	 غ,ن

Note.—The reduction in mileage from \$135,000 to \$125,000 has been agreed to by the Major Genmandant.

Pay, Marine Corps, 1923.

DIFFERENCE BETWEEN AMOUNTS APPROPRIATED FOR 1922 (BY TER

Items.	Expended, 1921.	Appropri- ated, 1922.	Estimated, 1923.	Increase.	I
Pay, officers, active and reserve list:				·	- E
Longevity	618, 362, 62	591,690.00 723,780.00	579, 170, 00 673, 620, 00		
Corps Reserve. Foreign shore service and sea pay. A viation. Mounts and nides de camp, uni-	3,335.08 89,026.09 49,809.35	10, 896, 01 120, 656, 00 89, 874, 00	8, 263, 18 101, 068, 00 82, 391, 00		
form gratuity, lost personal property, miscellaneous		32, 550. 00	17, 450. 00	!	
Total	3, 583, 816, 89	4,386,196,01	4, 048, 462, 18		•
longevity pay	321,031.38	. 353, 761, 25	379, 017, 50	\$25, 286. 25	
list: Base pay	8, 333, 192, 38		8, 254, 90%, 00		
18, 1920. Longevity increase			306, 312, 00		
Foreign shore service and sea pay. Aviation			601, 535, 52 39, 230, 40		
Oners !	272,731,17		69, 120, 00 458, 505, 00		
clerks Interest on deposits Cooks and messmen	74, 058, 89				
Qualification pay					
men Specialists' pay Retainer pay Miscellaneous	16, 844, 14 107, 478, 56 202, 397, 58 459, 253, 38		22, 500, 00 200 256, 00 137, 306, 32 176, 988, 00		
Total Pay enlisted men, retired list Undrawn clothing Mileage Commutation of quarters Pay, civil force, Marine Corps.	98,667.28	12,060,300.76 210,822.60 25,000.00 150,000.00 711,100.00 146,711.28	11, 568, 968, 84 227, 046, 40 250, 000, 00 135, 000, 00 670, 000, 00 146, 611, 28	16, 225, 80 225, 000, 00	141.4

is turn of the M

Corps.
unitation of quarters for officers on declude commutation of quarters for

without as on d

> of disability to sy that office.

Pay, Marine Corps, 1923 -- Continued.

DIFFERENCE BETWEEN AMOUNTS APPROPRIATED FOR 1922-Continued.

Items.	Expended, 1921.	Appropri- ated, 1922.	Estimated, 1923.	Increase.	Decrease.	
RECAPITULATION.		-	,			
y, officers, active and reserve list y, officers, retired list y, enlisted men, active and reserve	321, 031, 38	\$4,386,196.01 353,761.25	\$4,048,462.18 379,047.50	\$25, 286. 25	\$337,733.83	
y, enlisted men, retired list	11, 185, 189. 16 210, 155. 38	12,060,300.76 210,822.60 25,000.00	11,568,968.84 227,046.40 250,000.00	16, 223, 80 225, 000, 00	491,331.92	
nmutation of quarters	98, 667, 28	150,000.00 711,100.00 146,711.28	135,000.00 670,000.00 146,611.28		15,000.00 41,100.00 100.00	
Total	15,677, 104. 01	18,043,891.90	17, 425, 136. 20	266, 510. 05	885, 265. 75	

Net decrease, \$618,755.70.

Note 1.—For explanation of increases and decreases see letter to major general commandant, E-32121, ted Sep.: 30, 1921, par. 4.

Note 2.—Amount appropriated under "Pay, Marine Corps, 1921," \$15,032,779.48. Under a decision of Comptroller of the Treasury, dated Apr. 19, 1921, authority was granted to transfer from "Mainte-Dec, Quartermaster's Department, 1920," to "Pay, Marine Corps, 1921," such funds as were needed rover any deficiency in "Pay, Marine Corps, 1921."

PROVISIONS, MARINE CORPS.

Mr. Kelley. General McCawley, you have this year an appropriaon of \$4,141,450 for provisions for the Marine Corps, and for the

ext fiscal year you are asking a less amount.

General McCawley. The original estimates were \$4,169,200 under his item, and the department reduced them by \$100,000, leaving a tal of \$4,069,200.

COST OF RATION.

Mr. Kelley. What do you figure the ration at?

General McCawley. At 50 cents. These estimates were made up st August, and I have gone over them three times recently for the urpose of revising them. The last revision brought the total to 1.084,570, which represents a difference of \$84,630 from the original timates. Therefore, I think it has been thoroughly figured out. f course, the ration is something that is allowed by law or preribed by law, and we have nothing to do but procure it, just as the w provides. It costs so much money, and we must pay for it. It purely a matter of calculation.

Mr. Kelley. You get the Army ration?

General McCawley. No, sir; the Navy ration. The Army ration one prescribed by the President, and he can change it whenever wishes to. You gentlemen prescribe the Navy ration in its comonent parts, and we must furnish that. We get it as cheaply as we n, but we must procure it even if we incur a deficiency in doing so. he Marine Corps prices for food are as cheap as either the Army Navv. and in some cases cheaper.

Mr. Kelley. I thought you had gone back to the Army ration.

General McCawley. No. sir.

Mr. Kelley. Where did I get the idea that you were issuing Army ration?

General Lejeune. Congress put us on the Navy ration in 19b Mr. Kelley. I thought you were using the Army ration.

General Leseune. We had been prior to that.

Mr. Kelley. When you went with the Army-

General Leseune (interposing). When we serve with the Ar we have the Army ration, but when we serve with the Navy web the Navy ration.

Mr. Kelley. If you had the same food, it would not cost you:

more than is costs the Army!

General McCawley. No, sir; not if we had the Army ration.

Mr. Kelley. The Army ration is 32 cents now.

General McCawley. I do not know what the actual cost of Army ration is, but I saw a statement in the paper the other that the committee reporting the Army bill had allowed for Army ration 30 cents. Our ration to-day is costing 54 cents, or is the average cost, and the Navy ration is costing a little more that, or about 55 cents.

Mr. Kelley. I do not see why that should be.

General McCawley. Our ration for troops in the United St is now costing us 47.38 cents on an average, though at Quantic cost is 43.23 cents, but the average should be considered to care the higher-priced places. Outside the United States the avecost is 60.83 cents.

Mr. Kelley. I can see how it might be 40 cents, because there always been a difference of about 25 per cent, the Navy ration b about 25 per cent above the Army ration in cost.

General McCawley. That is, if the Army is getting its ration

32 cents, but do you know that?

Mr. Kelley. That is what they say. Of course, food prices come down.

General McCawley. The last prices we got showed that food going up.

Mr. Kelley, I think there has been a little advance in a

things.

General McCawley. The last prices we had showed an increase per cent on a few of the principal component parts of the reference of the principal component the ration, in February cost 17.55 cents per pound, and in Marcost 19.31 cents per pound; this was just a few days ago. Beef 12.15 cents per pound in February, and it was 12.75 cents per pin March. Butter was 35.44 cents per pound in February, and now 37.15 cents per pound. Lard was 10.73 cents per pound February, and it is 12.46 cents per pound now. Onions cost cents per pound in February, and they cost 8.87 cents per p

*: Kelley. Were you brought up on a farm?

al McCawley. No, sir; but I have spent some time.

KEL: During the spring mo of t, everything is high, e just beginning to

arch and Apr se they are go tarted with the uff. In the latter part of the season they run out, but that will not the situation when you buy your food supplies next summer, cluding canned goods.

General McCawley. We always buy the pack in canned goods. Mr. Kelley. Butter and eggs are high during March, April, and lay. The Secretary of the Navy knows how farming goes, and he nows that it is quite natural for the prices to run up somewhat ow, but when you lay in your stock of supplies next summer the rices will have dropped away down. I wonder if it would not be ll right to figure the ration at 40 cents?

Secretary Denby. If you are figuring on the marines stationed at ne permanent posts in the United States, the cost of the ration would e one thing, but when you send them abroad, the whole thing

nifts.

General McCawley. At some places the ration costs over 60 cents. Mr. Kelley. You kept it down to 50 cents last year.

General McCawley. Do you know how that was accomplished? t was accomplished by dipping heavily into our reserves.

Mr. Kelley. You might do that again to keep it from spoiling on our hands.

General McCawley. We have practically wiped it out.

Mr. Kelley. Have you any left?

General McCawley. We will have about \$400,000 worth left on ulv 1 at best, which is about the normal amount we should always ave, and it should not be called a reserve, as it is nothing but a ecessary stock to carry us over and enable depots to fill requisitions.

Mr. Kelley. You do not need much reserve in a big country like

ais, where you can be supplied readily.

General McCawley. It would be very uneconomical to buy canned uff immediately as you consume it, as you should buy that when the ack is made up, and there is a large quantity of canned goods

Mr. Kelley. How will we explain this great difference in the Louse! Here is the Army with troops on the Rhine, on the Isthmus f Panama, in the Philippines, and scattered all along the border osts and all over the United States with a ration allowance of 32 ents?

Secretary Denby. They do not have to furnish certain things that e must furnish.

Mr. Kelley. But we have allowed you 25 per cent increase over ne Army ration to make up for that.

General McCawley. It will not make up for that on the basis of

Note.—I do not know whether you know, Mr. Chairman, that the Army ration figures f. o. b. point of purchase with no freight added, while our supplies e purchased f. o. b. destination freight being included in the cost price.

Mr. Kelley. That is the history of this whole transaction. If you ill study it, you will find that all along there has been a difference f about 25 per cent between the Army ration and the Navy ration. hat was due to the fact that your ration prescribed so many ounces this and so many ounces of that.

Secretary Denby. And it was also because of the mobile character

the Navy.

Mr. Kelley. And because of the mobile character of the Navy; Now, if we followed that practice, we would give you the A

ration plus 25 per cent.

Secretary Denny. That is accounted for theoretically by the ficulties of transportation and the mobile character of the navals ice as contrasted with the Army service, but that still leaves the ter without your having made any differential in favor of the N

on account of the fact that the ration is prescribed.

Mr. Kelley. If you take the Army ration for 1912 and the X ration for 1912, and put them down side by side, and then carryt right down through 1913, you will find that the difference has about 25 per cent each year right along. Once in a while the difference has been 33\frac{1}{2} per cent, but it has seldom been more than 25 cent. Some years it has been less than 25 per cent, and sometionly 20 per cent. It is surprising how closely together they ru amount sometimes. The Navy ration often ran down to 30 cent

General McCawley. That was before the war.

Mr. Kelley. Food prices are going back to where they were be the war.

General Lejeune. Before you establish a price for the ration, should put something in the law that would enable us to change

components.

Mr. Kelley. We are willing to give you that difference, of con We are willing to feed the boys with the Navy ration, and we want to give you enough money to buy that ration, but last year the Navy insisted that it would take about 68 cents.

General McCawley. I think that is what we were paying at time, and I said that we could come down to 60 cents, or that is recollection. I predicted that the ration would cost 60 cents, bu have managed to reduce the average to 541 cents.

Secretary Denby. What did you do?

Mr. Kelley. We put it at 50 cents.

General McCawley. You put it at 50 cents and gave us money 47 cents.

Mr. Kelley. You got along very well by using a little of reserves.

General McCawley. We used \$800,000 of our \$1,200,000 work reserves. If we go on doing that, we will not have any reserve year; in fact, by July 1 there will be no reserve.

Mr. Kelley. The difficulty is this, that the Army bill pro

32 cents for the ration.

General McCawley. I have no doubt but that the Army has a reserves that they are still working on. That is probably the re why that cost is 32 cents.

Mr. Kelley. That should be inquired into. General McCawley. Our reserve is wiped out. Mr. Kelley. You have how much food reserve?

General McCawley. On the 1st of July we will have a \$400,000 worth of food supplies, which is just the amount we shave to carry us along for two or three months.

KELLEY. I quite agree with G
u establish a price for t
an the pri now bei

une in his re which is cons uld put some he law that would enable the components of this ration to be nged by administrative action, as, if the law remains as at present, men are entitled each day to the components authorized by law, the Government is required to furnish those components, and he money appropriated is not sufficient a deficiency will ensue. If some authority is given for administrative action in reducing amount of food issued daily—which, of course, would result in ving of money—then the law could be complied with, and the given the food that the money appropriated will buy, and no ciency is likely to result.

have no question whatever of being able to feed the Marine ps on a 40-cent ration, but I am equally sure that it is not pose to provide a 40-cent ration which will be fully equal to the sy ration prescribed by law, though such ration would be fully sfying to the men. I am as thoroughly convinced that, unless d prices are materially reduced, it will be impossible to procure Navy ration in full for that amount of money; and if you insist to deficiency shall occur in this appropriation, although the ised Statutes provide that such a deficiency may be made in sistence, then I would suggest the authorization for the reduction of the ration by administrative action as I have before resed to.

RESERVE SUPPLIES ON HAND.

Ir. Kelley. Will you put in the record a statement of your ree as of this date, or as of the last available date, and then an mate of how much you will have on hand on the 1st of July? eneral McCawley. I will do so. (The statement follows:)

due of depot subsistence stores at the depots in Philadelphia, Pa., Hamp-Roads, Va., and San Francisco, Calif., and at the Marine Barracks, Quan-Va., Parris Island, S. C., and Mare Island, Calif., as follows:

```
and July 1, 1921__________$1, 137, 370, 62
and March 1, 1922____________610, 203, 53
nated value of supplies to be purchased March 1–June 30,
122____________400, 000, 00
mated value of supplies to be carried over July 1, 1922________393, 947, 00
```

ecretary Denby. Do you intend to use that reserve after getting rappropriation?

eneral McCawley. We are still eating into our reserve, so that July 1 we will have less than \$400,000 left, which is no reserve

ecretary Denby. When you made up your figures for next

eneral McCawley (interposing). I estimate that we will need next year \$4,084,570, but I am willing to accept this figure in the in order not to ask for more money, and the figures are practly the same. I am sorry that any increase should appear to be essary in the first item in our appropriation, because I am going take reductions in nearly every other item as you go through. Ir. Kelley. This is based upon a cost of 54 cents?

eneral McCawley. No, sir; it is based upon a 50-cent ration, aligh the average cost of the ration to-day is 54.7 cents.

r. Kelley. Is that computed on the basis of 20,000 men?

1

General McCawley. Yes, sir. If you reduce the number of men, of course, we reduce this estimate.

Mr. Kelley. Did you deduct from the 20,000 men the number

subsisted on board ship!

General McCawley. Yes, sir: we do not feed the men on board ship. and we do not estimate for them.

Mr. Kelley. You estimate only for the number that you actually

subsist?

General McCawley. There are 2,000 men on board ships that are subsisted by the Navy, and we do not estimate for them.

Mr. Kelley. You estimate on the basis of 19,000 men!

General McCawley. Yes, sir: I have an analysis of that in the bill right in front of you, on page 151, which shows exactly how that \$4,069,000 is made up.

Mr. Kelley. You say here, "rations in kind for 20,000 men."

General McCawley. No, sir; that is not based on 20,000 men, in on 16.874 men.

Mr. Kelley. That is the way it appears in this table here.

General McCawley. This is my analysis which I put in the hearings every year. I always analyze the estimates. That is the state. ment on which this estimate was based. The most recent figure show that 17,164 men are receiving rations in kind. That include the men serving abroad. It is not a fair way of estimating, because those men serving abroad are being provided with a ration which costs about 60 cents. Next year I will give a better analysis of this and put in those men separately in addition to those on shore in the United States.

Mr. Kelley. You will please put this table in the record at this point.

General McCawley. I will do so.

Appropriation, "Maintenance Quartermaster's Department, Marine Corp. 1923." analysis of subhead "Provisions" (20,000 men)

16.874 men	60 000
Rations in kind, at 50 cents per day per man	
Subsistence while traveling, at \$2.25 per day	
Board and lodging of applicants, at 82.25 per day	36
510 men, communation enlisted men on recruiting duty, at \$2.25 per day	418
400 men, communation, clerks and messengers, staff officers, at \$1,50 per day	219
216 men, commutation, small detachments	120
Additional rations for noncommissioned officers (962), at 40 cents per day per man (act approved May 18, 1920)	
Maintenance of ice machines	2
Ice for preservation of provisions, etc	50
Subsistence in hospitals	40
Total	4.100
Reduced by direction of Navy Department	7190

er analysis—Continued.	
2.000 men aboard ship subsisted by Navy	
400 men, commutation enlisted men on recruiting duty at \$1.75	
per day	\$255, 500
436 men, commutation, clerks and messengers, staff offices, at	
\$1.50 per day	238, 710
Commutation (small detachments)	122, 840
Additional rations for noncommissioned officers (915) at 40	
cents per day per man (act approved May 18, 1920)	133, 590
Maintenance of ice machines	2,500
Ice for preservation of provisions, etc	80, 000
Subsistence in hospitals	53,000
	4, 084, 570

Revised February 25, 1922.

Ir. Kelley. Also please prepare a revised table based upon the aber of men you would have to supply in case we reduced the numin the Marine Corps to 19,500, and, also, a table upon the basis of 00 men and upon the basis of 17,500 men?

eneral McCawley. I will do so.

Ir. Kelley. We would like to have those three sets of figures. eneral McCawley. I will supply that, and it will be based upon same figures I have here.

mates, appropriation "Maintenance, Quartermaster's Department, Marine Corps, 1923."

Subheads.	20,000 men.	19,500 men.	19,000 men.	18,000 men.	17,500 men.
sions.		\$3,977,947 1,100,000	\$3,886,697 1,060,000	\$3,620,442 1,000,000	\$3, 497, 255
rv stores.	884,600 450,000		840,000 375,000	825,000 350,000	950,000 815,000 350,000
portation and recruitingrs of barracks	850,000 350,000	837,630 350,000	825,000 350,000	800, 520 350, 000	788, 150 350, 000
rengent		100,000 1,975,000	100,000 1,925,000	100,000 1,850,000	100,000 1,800,000
Total	1 9, 822, 571	9, 590, 577	9, 351, 697	8,895,962	8,650,495

e Quartermaster told the committee that he possibly could get along with this amount.

E.—In the reductions of force provided for in the second and succeeding columns there can be no ions made in forage and renaits of barracks, as they are in no way affected by the reduction of menture conditions can be said to apply almost equally to fuel and contingent, which are very slightly d. Provisions is a matter of arithmetical calculation, and transportation and recruiting is affected othe extent of the number of men who will not be enlisted and the cost for transporting that number, ng and military stores can be only slightly reduced, as they are down to a minimum now, and were for the fast diminishing reserve stock on hand the sums named would not be sufficient, as they in y represent the amount of money necessary for the maintenance of the number of men provided for.

Ir. Kelley. I wish you would also supply a statement showing amount of food reserves that you have used from the 1st of July to the present time.

eneral McCawley. Wouldn't you rather have a statement of **it I** will use during the year?

Ir. Kelley. You may furnish both. eneral McCawley. This appropriation we are dealing with now s not take effect until next July.

Ir. Kelley. I want to see how you are running along with your ropriations?

eneral McCawley. I will put it both ways—up to date and what timate up to the 1st of July.

r. Kelley. Sometimes you can get along very much better in ing up your mind if you know exactly what has happened, so if you will give the amount of the reserve you have used to date and then estimate the amount you will use of your reserve for the balance of the year we can tell how much your ration is costing you this year. General McCawley. Very well.

PURCHASE OF STAPLE PRODUCTS.

Mr. Davis. Do you buy your staple products—for instance, flour and meat—in large quantities?

General McCawley. Only what we regard as necessary for consumption at the places where we purchase them.

Mr. Davis. Do you buy them very often?

General McCawley. Oh, yes, sir; every month. We buy many of the things every month, particularly the fresh food or perishable

stuff.

Mr. Davis. I am familiar with the usual periods that many of farm products are sold, and my experience is that there are certain months in the year when flour, which makes bread, and meat are higher than they really ought to be. Three or four months ago the farmer was selling his wheat and corn crop—I come from a wheat and corn producing country, and much of the wheat crop was soll by the farmer at about 90 cents a bushel, and, owing to conditions

he was obliged to, and did virtually, sell his entire crop.

Since that crop of wheat was disposed of, as far as the farmer was concerned, at about 90 cents a bushel, wheat has been going up until the other day it reached about \$1.40 or \$1.50. The farmer did not have much of any wheat to sell then; it was in the hands of the big elevator men, and now the price of bread has gone up in consequence of raise in price of wheat. I remember that corn was selling at about 25 cents a bushel, and after the farmer had sold it all, and it was into the hands of other people it usually goes up. The same would be true about bacon. In a little while the farmer will be selling his hogs, from which are made bacon and other pork products, and as soon as the farmer disposes of all his hogs the retail price and the wholesale price of meat products will go up, and if you use considerable discretion, which I think you ought to use, you would take advantage of those times when you might buy flour cheaper than you can right now, because bread is now being made out of flour produced from \$1.40 wheat which the farmer sold for 90 cents. And you could buy bacon in four or five months from now at a good deal less, but as soon as the farmer gets rid of his wheat, corn, cattle, and hogs up go the products therefrom.

Mr. Kelley. I think the general buys his staples like that just in

vou sav.

General McCawley. We always take advantage of the market Mr. Davis. But you ought not to buy them every month. General McCawley. We do not buy everything every month.

Mr. Davis. If you would buy your flour two or three months from now you would get it for less than you can get it now, and flour will keep for five or six months, and bacon will keep for five or six months so, I think, you should take advantage of those conditions.

Ge ral McCawley. We only buy the perishal articles of the

reti ¹¹ een stuff, every month. I wanted to find out

k advantage of

eral McCawley. Always. This is about the method we pur-Perishable articles of the ration, such as fresh and smoked. fresh vegetables, and fresh fruits, are purchased locally by contract after solicitation of bids and award by items lowest satisfactory bidders. Canned fruits, canned vegetables, and canned beans, and other seasonable articles are purchased ock at depots in the season of greatest seasonable abundance, the ity purchased estimated to be sufficient to last until the next seasuch articles as canned meats, flour, sugar, baking powder, exand similar articles are purchased for stock at depots from o time, as required, and as market conditions render advisable, antity procured usually covering six months' requirements, the num quantity of stock on hand being approximately three is' requirements.

Davis. In my opinion flour will cost you \$2 or \$3 a barrel now than it will when the August and September crop of comes in; then wheat will go down and flour will also go

Kelley. Last year you put in your tables a statement showing ngth of time the various reserves would last a corps of the er we were then planing. Will you carry that out this year,

ieral McCawley. I have it here.

Kelley. On the basis of 17,500 men, 18,000 men, and 19,500

ieral McCawley. Yes, sir.

Kelley. Wherever you put in a table about supplies, carry it to how long those supplies will last a corps of those different ths.

ieral McCawley. Very well.

of the principal articles of Marine Corps subsistence stores on hand and ordered as of December 31, 1921.

Article.	On hand and on order Dec. 31, 1921.	Estimated to last—	On hand Dec. 31, 1921.	Estimated to last—	Average 1,000 men.	
evaporated avy ned il white il, yellow non ue ** **Rherry ** **porated ** **evaporated ** **vaporated ** **yaporated	295, 811 84, 288 91, 263 13, 620 10, 230 53, 366 2, 656, 047 42, 338 499, 123 7, 551 11, 839	Mo. Dys. 1 4 12 3 21 2 11 23 24 1 23 7 14 1 5 6 4 15	Pounds, 13, 111 205, 811 55, 488 91, 263 13, 620 10, 230 53, 366 1, 216, 047 42, 338 499, 123 7, 551 11, 839	Mo. Dys. 1 3 8 2 13 2 11 24 24 15 6 4 15 22	Pounds. 630 3, 180 1, 075 1, 880 600 1, 400 16, 876 1, 700 3, 870 685 740	
8	71, 788 1 4, 878 750, 800 344, 039	2 4 3 25 3 17 4 22	71,788 1 4,878 750,800 344,039	2 4 3 25 3 17 4 22	1,575 1 60 10,000 3,460	

overepresents the stock on hand at Marine Corps depots in the United States and Marine Corps Parris Island and Quantico. Reports from other posts have been discontinued on account of the receipt, which makes the information contained therein of little value, over figures are on the basis of 20,000 mdn. On July 1 there will be no reserve left.

Kelley. Will you please indicate the value of the reserves luring this fiscal year?

19.

General McCawley. Yes, sir.
Secretary Denby. Based on cost price?
Mr. Kelley. On the price of issue.
General McCawley. I will insert that in the record. (See p.-.)

CLOTHING.

Mr. Kelley. We now come to clothing. I suppose you have

plenty of clothing yet, have you not?

General McCawley. We have a pretty good stock, and I am going to offer to reduce that estimate by \$375,344, if that is acceptable to you, sir.

Mr. Kelley. That leaves how much for this item?

General McCawley, \$1,118,771.

Mr. Byrnes. You are not going to buy any shirts, are you? General McCawley. You must have been at General Dawess meeting.

Mr. Byrnes. What did you buy those shirts for? General McCawley. For the men to wear.

ARMY UNDERSHIRTS.

Mr. Byrnes. I read that the Marine Corps had purchased shirts when they had a supply on hand. What was the explanation of it General McCawley. Well, it was this: We needed some cotton summer undershirts of certain sizes which we did not have, and they were in demand in the corps, although we had quite a large stock of shirts of other sizes, but which were not available for the smaller men, so we advertised for the needed sizes and got a very reasonable bid based on our specification. Then we went to the clearance committee, which said the Army had a lot of shirts available for issue, and they would turn them over to us without cost if we wanted them, so I agreed to that proposition provided the shirts were of suitable material for our men to wear in the Tropics. We sent for a sample, and when the sample came it was found that instead of being a summer undershirt it was a winter cotton undershirt, that it weighed twice as much as our shirt did and was entirely of a different character from the shirts our men wear in the Tropics. I so stated this and again asked permission to make the purchase of our standard shirts, but was denied.

Mr. Byrnes. Was it an undershirt or a top shirt?

General McCawley. It was an undershirt. A gauze shirt was what we wanted and we got from the Army this very heavy, combersome, ribbed shirt which I am sure the men will not wear in the Tropics. It was entirely unsuitable, but we were forced to take it.

Mr. Byrnes. You were forced to take it!

General McCawley. Yes, sir.

Mr. Byrnes. Have you issued them to the men?
General McCawley. No: we have just received them.
Mr. Byrnes. Are you going to issue them to the men?
Ge McCawley. We will have to.

Ge McCawley. We will have to.

LES. To wear in Santo Domingo

CAWLEY. Yes, sir; where t

y 1 . .

eter is rather

Secretary Denby. Mr. Byrnes, I would like to bring to the commitand let them see the regulation Marine Corps shirt and this ing that they put upon the Marine Corps. It is twice as heavy; is not only heavy but roughly made; no man would wear it in the opics, and it is absolutely different from the Marine Corps shirt. owever, it was not the difference in color, which was incorrectly ited, but it was the difference in weight, in composition, material, d everything else, and if those shirts are ever issued to the Marine orps the saving of \$24,000 that was calculated to have been made rough handing these 100,000 shirts to the Marine Corps will nply be made out of the pockets of the privates and noncommisoned officers of the Marine Corps, because the shirts that came to us ould be issued to the men and they would not wear them, and they ould simply go out and buy their own. They would make that ving for the Government, and that is all there is to it.

Mr. Byrnes. Are you going to issue them? Secretary Denby. I am not, and I hope to be able to get the order

scinded and the shirts returned where they belong.

General McCawley. The Marine Corps would not save a cent, cause we have to take from our appropriations the cost of those irts, which we probably can not use, and put it into this reserve nich the Budget collects from various branches of the service, so at our appropriations are not saved \$24,000 by this transaction all.

Mr. Byrnes. Then, what shirts will you issue to those in Santo

mingo?

General McCawley. If a man wanted a No. 2 shirt, which was e of the sizes called for by this order, he would have to take one these heavy winter undershirts, but he would probably not wear and would have to go out and buy a shirt, because that is all the rine Corps can issue to him; he would have to go out and buy one his own expense and probably pay a dollar for it instead of having e issued to him at 22 cents.

Mr. Byrnes. A man who wears another size would get a lighter

Feneral McCawley. Yes, sir; he would be all right.

Mr. Byrnes. But the fellow who wore a No. 2 would be out of

General McCawley. A man of your size would go out and pay a llar for a shirt, because he would not wear the shirts we would ue to him, whereas a man of the size of Governor Kelley would aw a gauze shirt and be comfortable.

Secretary Denby. Permit me to correct the record, if you will. I d I would not issue these shirts, but that is a matter the Marine rps controls. What I meant was that I still hope that the matter If be adjusted, and that the Marine Corps will not be compelled issue these shirts.

Mr. Kelley. They would not be justified in issuing a winter under-

rt for tropic use.

Mr. Byrnes. Is your shirt a cotton shirt and the Army shirt a olen shirt!

Feneral McCawley. No: they are both cotton undershirts; but the my undershirt is what I would term a winter undershirt; it weighs ce as much as our shirt.

SALARIES AND WAGES.

Mr. Kelley. Where do you get this difference of \$300,000? General McCawley. On page 152 you will see an analysis, beginning in the first column.

Mr. Kelley. I have been looking at that for quite a spell.

General McCawley. The salaries amount to \$7,500, and they will be reduced to \$6,400; wages, \$553,778, reduced to \$374,972.

Mr. Kelley. Just tell us about that.

General McCawley. Well, we are going to do with less people. Mr. Kelley. You will not have so many people at the factory! General McCawley, No. sir.

Mr. Kelley. You say the wages will be reduced to \$374,972?

UNIFORM CLOTHING MATERIAL, INCLUDING MADE-UP ARTICLES.

General McCawley, Yes, sir. The next item is uniform clothing material, including made-up articles; the original figure was \$995,837, but the department cut that by \$105,000, so that brings it down to \$890,837; I propose to further reduce it to \$708,399.

Mr. Kelley. That is uniform clothing material? General McCawley. Yes, sir: and also made-up articles.

Mr. Kelley, What about your stocks! What have you in stock of clothing material?

General McCawley. Well, I can tell you all about that; we have quite a lot, and I am going to buy very little comparatively out of this. Which would you like to have first?

Mr. Kelley, Well, what do you mean?

General McCawley. What we are going to buy or what we have

Mr. Kelley. What you have on hand?

General McCawley. Do you want the complete list or the principal articles? There is a list of the principal articles.

Mr. Kelley, You will put that in the record, will you? General McCawley, Yes, sir.

Table of the principal articles of Marine Corps clothing on hand and on order as of December 31, 1921.

Article.	On hand and on order De- cymber 31, 1921.	Sufficient to meet requirements for issues for—	On hand December 31, 1921.	Sufficient to meet requirement for issues for—
Belts, trousers. Blankets, woolen Coats, summer, field Coats, winter, field Drawers, nainsook Drawers, woolen Gloves, woolen Hats, field Laggings O cereats Glanwal Bannal Bannal	44, 152 167, 746 164, 474 60, 716 282, 525 347, 964 166, 378 94, 226 183, 974 33, 884 92, 488 421, 658 222 ccz	Months. 6 19 16 9 13 22 24 10 15 12 14 7 15 24 12	44, 152 167, 746 164, 474 60, 716 282, 528 347, 964 100, 378 94, 226 183, 971 33, 266 34, 884 122, 488 421, 730 371, 658 371, 584 101, 378	Months

Mr. Kelley. This is the material out of which these articles are nade?

General McCawley. Well, no; it is uniform clothing material, inluding made-up articles, but it includes everything which we require.

Mr. Kelley. This is what you have on hand?

General McCawley. Yes; that was a survey as of the 31st of Deember.

Mr. Kelley. Which one of these items are the shirts you have been

alking about?

General McCawley. Cotton undershirts, about two-thirds of the 7ay down, 421,000.

Mr. Kelley. Four hundred and twenty-one thousand seven hundred

nd sixteen shirts.

General McCawley. Yes, sir.

Mr. Kelley. Enough to last 15 months?

General McCawley. Yes.

Mr. Kelley. On a corps strength of how many?

General McCawley. Twenty thousand men. However, it is rather infair to say that the time limit sufficient to meet the requirements. s 15 months, because that simply refers to the total number on hand; t does not consider the sizes at all.

Mr. Kelley. There might be some sizes you would have to fill in? General McCawley. Exactly. Recently we had to buy some of hese 2 and 3 sizes of undershirts just referred to.

Mr. Kelley. I remember that one year the sizes were all too large

ind the next year all too small.

General McCawley. During the war we enlisted a great many large men, and we were left with a good many large sizes after the war. Last year, Mr. Kelley, just on that one item of shirts, we issued \$21,000 from the Philadelphia depot in 12 months. In maintaining a stock there should be on hand about three times the issues from the depot for the preceding year, as you must give consideration to the ssues for the balance of the year in which the estimate is made, the next fiscal year and six months in the year following that to balance four stock and take care of your sizes.

Mr. Kelley. I would not think you would have to do that; I should

hink you would have some reserve?

General McCawley. The reserve I am talking about now must be used between now and the 1st of July, before the money you are going to appropriate becomes available, and that money takes care of all of next year and should take care of about six months in the rear following before the new appropriation becomes available and we can get our stock in. That has been our experience, and it shows we require about that much to keep our stock going.

Mr. Kelley. This is the material you have made up?

General McCawley. Yes, sir.

Mr. Kelley. How do you set out the material that is not made up, so we can add it to this?

General McCawley. I have a list of that, too.

Mr. Kelley. Is that in such shape that you can put it in the ecord in the form of a table?

General McCawley. Yes, sir. I can put in the material on hand nd how many articles it will make.

Mr. Kelley. That will be fine: if it is not too big a job? General McCawley. No: we can easily do that.

Articles of Marine Corps clothing and meterial to be purchased durin mar 1923.

		Marenal.				Material 19	required 28.
	On hand.	On hand.		. Will . make—	Total on hard and quantity material on hand and due on contract.	Quantity.	Wil! make-
Belts, fronser		12,488 0 3,784	0 0 0 0 8,000	7,527	61,679		33, 294 30, (61) 30, (00)
Lace, yellow silk Chevrons—and stripes Nainstok Drawers, knee		2,000 93,371	77,501	2, 556 109, 546		200,000	14, 2% 12%, 571
Kersey, green, 16 ounces, Coate, S. W. Tronzers, S. W. Flannel shirting. Shirts, thannel. Boots, rubber.	80, 716 120, 579 112, 499 16, 770	172,044 ₁ 235,205	1, 261	61, 982 72, 313 118, 233	142,699 192,692 230,732 16,770	60,000 60,000 2,000	16, 020 18, 690 30, 000
Coats, rubber Caps, dress Gauntlets, horsehide Hats, field Ornaments, gilt, col- lar	$\frac{14,964}{21,924}$		10, 830 0 0 0		14,964 32,754 56 114,227	3,000 8,000 1,000 40,000	
Ornaments, gilt Shoes, russet Shirts, under cotton Socks, woolen	34, 416 113, 561 461, 716		50, 000 100, 000 0		34, 416 183, 561 561, 716 418, 062	10,000 75,000 100,000 60,000	

NOTE. Consideration must be given to the large number of sizes required to be kept on hand fit the men, which necessitates a large stock.

Mr. Kelley. You are evidently going to have quite a lot of

left out of this appropriation this year, are you not!
General McCawley. I can not tell, Mr. Chairman. At the time we have a balance in that appropriation of about \$400,00 about four months to run.

Mr. Kelley. We gave you \$1,125,000? General McCawley. Yes, sir. We will probably have to bu things soon; in fact, I know we will.

Mr. Kelley. In this table on page 152 I notice the employ about the same in the different years?

General McCAWLEY. Yes.

SALARIES AND WAGES.



Kelley. Let me see whether I have this straight in my mind. ible shows the number of people manufacturing these different

eral McCawley. Yes, sir.

Kelley. And the schedule below shows the overhead salaries e wages paid the employees? ral McCawley. Yes, sir.

Kelley. The wages paid to practically the same number of rees range from \$384,000 in 1921 to \$475,000 in 1922 and 10 in 1923?

eral McCawley. That was probably due to an increase in

Kelley. That is what I am getting at. When was there any

eral McCawley. I had nothing to do with that. That was v the Navy Department and it was automatic with us; we had ow the Navy Department's scale of wages.

eral Lejeune. In August, 1920, there was an increase in

Kelley. But in 1923 is your big increase, \$553,000? ral McCawley. That is the present estimate. Kelley. But it is for the same number of men?

etary Denby. The wages in the yards were decreased on Sep-15.

Kelley. It is the same number of men all the way through, t the amount is increased by about \$75,000. Was there any e in wages recently?

etary Denby. I do not recall it.

ral Lejeune. There was some increase made.

Kelley. Nobody has been increasing wages this year over last. ral McCawley. Everybody in the Philadelphia depot is on le of wages authorized by the Navy Department.

etary Denby. I will find out about that and see what the exon is. I am very much surprised myself to know that there ny increases in wages authorized this year.

Kelley. I do not think there could have been.

eral McCawley. Those men could not get any more money authorized by the Navy Department's scale.

Kelley. These figures may be wrong.

eral McCawley. General Radford sent these figures and I ed them from him.

Kelley. That \$75,000 might have been an error in mathe-

ral McCawley. Possibly.

etary Denby. I can not see anything else. It is the same nummen and the same number of days, but the question may come there may have been more hours of work.

ral McCawley. But you can be sure that none of those men v more than is authorized by the Navy Department's scale of

Kelley. The Secretary makes a suggestion which may let us at the number of days worked may have been much less. They

may work more steadily now than they did last year; you he larger surplus last year and probably did not work the factor

uniformly.

General McCawley. The reason for that increase is as the Stary sugests and I remember it now. Colonel Radford was dire to submit his estimates for 1923 on a six-day-a-week basis, whe this year we are working on a five-day-a-week basis.

REDUCTION IN ESTIMATE.

Mr. Kelley. In any event, you are going to cut that to \$1.118.7 General McCawley. Yes, sir.

Mr. Kelley. Do you not think you could stand \$1,000,000 ever that?

General McCawley. Whatever you give we will try to get al

with, though I regard the figure as a minimum.

Mr. Kelley. Well, we want you to have enough clothing, but is quite a reserve stock in everything. What do you think all that, General! You are a good judge of this thing, and while I that was your judgment, still \$118,000 would probably make little difference.

General McCawley. Mr. Chairman, if you do away with this sum that you were talking about a little while ago it is going to these figures exceedingly difficult, because they are made with little margin; some are made very low with the idea that if we into a deficiency we can take care of it by using some of the cappropriations.

Mr. Kelley. We have been able to do that for you on the floo the theory that the Marine Corps was a small corps and it was a more difficult to estimate accurately for a small institution th

large one, and maybe we can get away with it again.

General McCawley. We have never had enough money for and at the present time we have a deficiency of \$17,000, and it is a to increase from now on until the 1st of July. If it were not follower to make a perfect to the propriation we would have to go to your committee deficiency in that appropriation, while having a balance in othe propriations, but as it is we can take care of it. As you say have a very small corps, the sums of money are exceedingly s

and it is very difficult to estimate accurately.

I should like very much to impress upon you the desire of Marine Corps to meet you gentlemen in the effort for economic every possible manner, and I have tried to show it to-day is reductions I have offered, and General Lejeune, by his order instilled into the corps a spirit of ecenomy that I have never equaled; it is splendid and he should be accorded the highest prand in suggesting the reductions I am offering to-day I feel the figures have been cut to the bone, and I beg that you will not still further and reach the marrow, because I fear deficiencies will the which I know it is your desire, and ours as well to be used to be a certain limit, beyond which none of use an economic still be used.

And it is pretty widely scattered CAWLEY. Very widely scattered.

FUEL-MARINE CORPS.

Mr. Kelley. Now, we come to the fuel for the Marine Corps. ris all coal.

General McCawley. No, sir; that is wood, electricity, oil, gasoline,

General Lejeune. And commutation?

General McCawley. Commutation principally, yes; that is one of ne big items. All expenses for fuel in kind for heating, power, and ooking purposes for barracks and quarters, including commutation or heat and light for officers and enlisted men, are payable out of nis fund. Also gas, electric current, and kerosene for illuminating nd cooking, and gasoline for power use. During the fiscal year 920 \$1,095,690 was expended out of this appropriation, and for the scal year 1921 \$1,020,750.20. Last year you gave us \$590,000, and t the present time there is a deficiency of \$17,129 in that approriation and it will increase, and we have four months to run. It estimated that the expenses for fuel, etc., for 1922 will amount to oout \$872,950.

Mr. Kelley. And that you expect to take out of other approriations?

General McCawley. What we save in something else will have to ake up that deficiency. We have never had enough money in iel; we have begged pretty hard for it every year but have never een successful, although the figures show exactly what the fuel is osting us and we can not get away from them.

Mr. Byrnes. It is one of the things you must have.

General McCawley. Yes. It is not a thing like fuel in the Navy, here you can use administrative measures to conserve it by stopping essels from steaming and things of that kind, but this is fuel which required for the heating of public buildings, barracks and quarters, orehouses, and what not, where we have to use fuel, and in addition ectricity for lighting as well as gasoline and commutation.

Mr. Kelley. I notice that you use a lot of gasoline and kerosene? General McCawley. We use a limited amount. It has been reuced tremendously this year by the limitation put by Congress upon ne use of motor-driven vehicles, but in Haiti and Santo Domingo, here our troops are operating in the field and at widely scattered ations, we are obliged to depend entirely upon motor transportaon to get our supplies to the troops.

Mr. Kelley. What price are you figuring for gasoline?

General McCawley. We are buying it at different prices, and we re paying from 23 cents as a high to 16 cents as a low. At Quantico e are paying 17 cents and at Paris Island 16 cents.

Mr. Kelley. Why do you have to pay 23 cents? It would seem as

ough you are buying it at retail.

General McCawley. At Portsmouth, N. H., they pay 23.9 cents, it they buy a very small quantity there.

Mr. Kelley. How much of this item of \$884,000 is for gasoline? ost of it, I suppose. General McCawley. Oh, no.

Mr. Kelley. \$159,400 is for gasoline and kerosene?

General McCawley. For instance, in the first six months of year we spent about \$62,000 for gasoline and \$21,672.08 for kers and fuel oil.

Mr. Kelley. You are not paying 23 cents a gallon for gasol are von!

General McCawley. No, sir; except at one station.

Mr. Kelley. How much a gallon do you estimate for gasoline? General McCawley. At Parris Island 16 cents and Quantico Those are the big stations. At Portsmouth, N. H., they ! gasoline for only one Ford car and probably have to buy it at rea and the price of 23 cents at that place is cheap, as gasoline up the is very expensive. It does not pay us to send up to Portsmouth for our supply stations for that little car. We have saved tremendon on gasoline in the last year. We have saved about \$75,000.

Mr. Kelley. That is because the price has gone down?

General McCawley. Yes, sir; and also on account of a limitar in its use.

Mr. Kelley. It was 33 cents a gallon.

General McCawley. In the West Indies alone they used 857 worth of gasoline in 1921. The gasoline cost us over \$203,000. That has been cut tremendously.

Mr. Kelley. But that is due to the fall in price?

General McCawley. Yes, sir; and the smaller consumption.

Mr. Kelley. How many gallons of gasoline are you estimate

General McCawley. I estimate that we will use the first six more of this year 418,000 gallons. Last year we used 958,383 gallons.

Mr. Kelley. How much kerosene do you estimate for, and at w price?

General McCawley. I have not the consumption of kerosene.

Mr. Kelley. It is not very large!

General McCawley. No. sir. Mr. Kelley. The bulk of that item is gasoline?

General McCawley. Yes, sir.

Mr. Kelley. How much coal are you asking for?

General McCawley. Anthracite coal, 12,816 tons, and bitumin coal, 32,457 tons.

Mr. Kelley. And the price? General McCawley. The price has gone up a little. ash egg coal we are paying for 1922 \$7.55 a ton, an increase t cents.

Mr. Kelley. Delivered where?

General McCawley. That is the mine price and for deliver all points on the eastern coast north of Norfolk, Va.—Pennsylvi anthracite coal. For chestnut coal we pay \$7.85, which is an incr of 10 cents; stove coal has increased 15 cents, up to \$7.90. The p of bituminous coal has come down. Last year it was \$4 to \$4.25, it is now from \$2.25 to \$3.50; more being purchased at the che These are all mine prices. figure

> ELLEY. How many tons of coal do you ask for? CCAWLEY. About 32,500 of bituminous and 12.50

> > Your d on the i cased price?



neral McCawley. No, sir. We never had enough money for to carry us through. The price of gasoline has decreased about er cent and the price of fuel oil about 40 per cent, and I have idered those facts in making this estimate.

r. Kelley. Probably, if we give you the same amount you had

year, you can get along pretty well, with the decrease?

eneral McCawley. I am sure we can not, though there is one g. if this new pay bill for the services passes, \$250,000 can come of the commutation item in this appropriation.

r. Kelley. And not go in anywhere else?

eneral McCawley. The paymaster will have to take care of some

r. Kelley. We will not figure on that, because we do not know

her it will pass.

meral McCawley. We are estimating this year that it will cost 872,000 for fuel. It is just one of these appropriations where, e do not get enough money, we are bound to create a deficiency. buildings must be heated and the commutation allowances must aid and we must have fires for cooking and gasoline, etc., to run ors, as well as electricity for lighting.

MILITARY STORES, MARINE CORPS.

r. Kelley. The next item is, "Military stores, Marine Corps." have \$500,000 this year and you want the same amount next

meral McCawley. I am suggesting a decrease in that appro-

tion of \$50,000.

r. Kelley. Making it \$450,000? eneral McCawley. Yes, sir.

r. Kelley. This money is to be used to manufacture various arti-

for the Marine Corps? meral McCawley. Yes, sir: and from time to time for the pur-

e of articles that we can not manufacture.

r. Kelley. You are getting along pretty well with the amount vear!

eneral McCawley. Yes, sir. We will probably have a slight bal-, but it will have to go to make up the deficiency in fuel.

r. Kelley. You have estimated that you will not use but \$350,000 this year; but running your stock down you will have to have

her \$100,000*!*

oneral McCawley. The estimate was put in last August. I. do mow whether it will come out right or not.

r. Kelley. How is it running since then, are you going to use • than \$350,000? This is one of the places you use to help out

neral McCawley. We will have to use all the balance to help he fuel, because we need over \$280,000 for fuel.

r. Kelley. If we take care of the fuel, \$350,000 will be enough I think you have rather convinced me, personally at least, that ut a little deep on the fuel.

neral McCawley. There is no question about that.

Mr. Kelley. If we restore a little more for fuel, we can leave at \$350,000 !

General McCawley. But we are using up our surplus supp The amount estimated here does not represent the normal sum we must have to take care of a corps of 20,000 men, and there wil a time-

Mr. Kelley (interposing). Bye and bye you will have to be more money, and bye and bye we will have more money in the cou to spend. Suppose we do increase your fuel appropriation reason: and then leave this at \$350,000?

General McCawley. I will try to get along though I have gi you figures made after careful estimating.

TRANSPORTATION AND RECRUITING, MARINE CORPS.

Mr. Kelley. The next item is, "Transportation and recruit Marine Corps.

General Lefeune. Next year we will have to enlist over 12,000 g and I have cut the estimate from \$1,000,000 to \$850,000. That is cause we have been able to make so many economies in the reco ing service.

Mr. Kelley. If we should make a little more cut than you be figured upon, then we could cut this item accordingly?

General Lejeune. I do not think it would be safe, unless you m a tremendous cut.

Mr. Kelley. We will not make a tremendous cut.

General McCawley, I suggest reducing that \$100,000.

General Lejeune. Say \$850,000 for 20,000; that is what I ams gesting.

Mr. Kelley. Please put in the record a statement as to what! sum would be on 19,500, 18,000, and 17,500.

General McCawley. Yes, sir. [Statement on p. 671.]

Mr. Kelley. You will do that for all the various appropriati all the way through? General McCawley. Yes, sir.

REPAIR OF BARRACKS, MARINE CORPS.

Mr. Kelley. The next item is, "Repairs of barracks, Mr Corps.

General McCawley. I agree to a reduction there of \$100,000. cording to our last report we had 1,348 temporary buildings, permanent buildings, or a total of 1,483 buildings to be mainta and repaired. Those buildings represent a value of \$5,331,000 the temporary buildings and \$4,432,000 for the permanent build or a total value of \$9,763,000. They have to be kept in repair. will give you some idea as to how we use the appropriation. have given up a great many rented buildings and are giving the as fast as we can. The Philadelphia depot is moving into build turned over to us by the Army, where we will save the rent after let of July, except the ground rent, which we have to pay, will be about 900 one. I think we can give up \$100,000 there. neral McCawley. It will be less than \$27,000; only a little over 00.

neral Lejeune. We took that over from the Army. They were ig ground rent.

neral McCawley. The exact amount is \$23,658.

. Kelley. For rent and storage you estimate \$98,793 for this

What is the amount for next year? neral McCawley, \$72,721. Speaking of rent, General Lejeune ntered into an arrangement with General Dawes to give up all d buildings so far as practicable and to move into Government lings for the recruiting service.

. Kelley. Have you built anything under this temporary build-

:lause?

neral McCawley. Very little, sir.

: Kellfy. How much? neral McCawley. \$1,300.

c. Kelley. How much have you spent for repairs so far this?

neral McCawley. A little less than \$280,000, but we have got ake a good many repairs and do a lot of painting this spring, h will pretty nearly use up that appropriation.

r. Kelley. You have spent about \$280,000 so far this year? neral McCawley. Yes, sir; but that is not representative of this of the year, because we do a lot of our work in the spring.

FORAGE, MARINE CORPS.

r. Kelley. The next item is forage for the animals.

neral McCawley. I can not suggest any change in that approtion. We have barely enough.

r. Kelley. Have you about the same number of animals as last

eneral McCawley. Yes, sir. We will have a few less this year, her expect a deficiency in that appropriation. It is in the same ition as fuel, but we are trying to get along. The animals have fed. Fortunately this year the price of all horse food has been low, but I do not think it will be next year. It is abnormally and it must go higher. While we reduced the number of animals I do not think the appropriation could safely be cut.

r. Kelley. How many animals have you?

eneral McCawley. Eight hundred and seventeen.

r. Kelley. That is about the same number you had last year? eneral McCawley. Yes, sir.

r. Kelley. You think food will not be lower?

eneral McCawley. The reports I have from our buyers show that ge is going to be higher next year.

r. Kelley. Have you quite a stock?

eneral McCawley. No, sir; we do not keep any stock on hand.

CONTINGENT, MARINE-CORPS.

r. Kelley. The next item is, "Contingent, Marine Corps"? eneral McCawley. I offer to give you back out of the estimate 285, over half a million dollars, making the appropriation an \$2,000,000.

Mr. Kelley. The same as last year?

General McCawley, Yes, sir.

Mr. Kelley. This is a long list of supplies, stationery, and every thing like that?

General McCawley, Everything.

Mr. Kelley. Of course, this stuff is all cheaper than it was less vear!

General McCawley. But this is an appropriation in which we have no reserve at all. It is day to day, the maintenance appropriation. A glance at its wording will show the multitude of things charged to it.

Mr. Byrnes. How does your account stand of recent date? Do you think you will get through this fiscal year on the appropriation

that you have?

General McCawley. I hope so; but I do not know. We are going to try to, but there will be no balance left. I can assure you of one thing, you will not have a deficiency in the quartermaster's appropriations.

On page 159, in line 4, the three words "during the war" at the end of the line, I think should come out. They seem to be say

perfluous.

Mr. Kelley. You want to pay the funeral expenses of retiral officers on active duty?
General McCawley, Yes, sir.

General Lejeune. We have three on active duty now.

Mr. Kelley. The \$2,000,000 suggested is on the basis of 20,000 men—the same?

General McCawley. Yes, sir.

Mr. Kelley. You will put in any further reduction that can le made with a lesser number?

General McCawley. Yes, sir.

Mr. Kelley. What is this new item at the top of page 162?

General McCawley. I do not know whether you will deal with that or not. I have the explanation of it. It is just a bookkeeping transaction with the Treasury Department to adjust the accounts of that officer, Major Pratt.

Mr. Kelley. Is there any money involved?

General McCawley. No. sir. He sent an automobile to be repaired on a price given by the company. When they got it there, after taking it apart, they found two or three little parts that had to be renewed, which cost \$43.95—more than the amount stated in the bill That could not have been ascertained until the machine was taken apart and the work had to be done. It is just to adjust the accounts of this officer held up in the Treasury.

MARINE BARRACKS, SAN DIEGO, CALIF.

OR FURTHER DEVELOPMENT OF BASE, PURCHASE OF LAND, ETC.

TLEY. General, on page 120 there is an itom, "Toward the elopment of the Marine Corps l hiding not to 100 for the purchase of land," at i Diego, Calif. I can give you a little of the history of that. Last summer when were making out these estimates I got the itemized list from the ril engineer at San Diego and our commanding officer out there, owing each building and each item of public works and the estiated cost thereof. It totaled somewhere between \$2,500,000 and ,000,000; I have forgotten the exact amount. It involved the origal plan which had been approved by the department during the ror before the war and had been submitted to the committee and which the committee had given its informal approval. General cCawley and I went over the items, and, realizing that we could thave all the buildings and ought not to have them, under exist g conditions, and we cut out all except what could be completed \$500,000.

Mr. Kelley. This amount will finish up the job?

General Lejeune. Yes, sir.

Mr. Kelley. What about the purchase of land?

General Lejeune. There is a little tongue of land that comes in the that [indicating] and affects some of the buildings—it comes that out in the place where we want to locate a building. Here adicating] is the regular reservation and this little tongue of land mes down like that [indicating]. It is only an acre or two. It cuts that into our grounds. I do not know why it was not bought origally. The \$500,000 will buy that little tract of land in addition completing the construction of the necessary buildings.

TUESDAY, MARCH 21, 1922.

BUREAU OF NAVIGATION.

ATEMENTS OF CAPT. PHILIP WILLIAMS, ASSISTANT CHIEF BUREAU OF NAVIGATION; CAPT. W. D. MACDOUGALL, SUPERINTENDENT NAVAL OBSERVATORY; COMMANDER M. S. BROWN, AND MR. EDWARD HENKEL.

TRANSPORTATION AND RECRUITING.

Mr. Kelley. We have with us this morning Captain Williams, the Bureau of Navigation. The first item under the Bureau of avigation is transportation and recruiting. How much are you king for transportation and recruiting for 1923?

Captain WILLIAMS. For 65,000 men?

Mr. Kelley. Yes.

Captain WILLIAMS. The modified estimate, the best I can submit the present time, is \$5,218,175.54. That item is made up as llows:

Item 1. For travel allowance of enlisted men discharged at exration of enlistment, \$1,504,800. In explanation——

Mr. Kelley (interposing). Suppose you give the entire list and en we can start at the top and consider each one separately. Then e list will appear together, with the total.

Captain Williams. Item 2. For travel allowance of men given

Hy discharge by reason of reducing the force, \$1,065,900.

Item 3. For transportation of enlisted men and apprentice seamen, and applicants for enlistment at home and abroad, with subsistence and transfers en route, or cash in lieu thereof, \$1,503,600.

Item 4. Same title as item 3, and should be grouped in same sub-

head in appropriation, \$471,020.

Item 5. Transportation to their homes, if residents of the United States, of enlisted men and apprentice seamen discharged by medical survey, with subsistence and transfers, en route, or cash in lieu thereof, \$5,461.17.

Item 6. Transportation of sick and insane enlisted men and apprentice seamen to hospital, with subsistence and transfers en route,

or cash in lieu thereof, \$40,918.87.

Item 7. Transportation of enlisted men of the Naval Reserve Force to and from duty, with subsistence and transfers en route, or cash in lieu thereof, \$300,000.

Item 8. Transportation of civilian officers and crews of naval

auxiliaries, \$500.

Item 9. Apprehension and delivery of deserters and stragglers, and for railway guides and other expenses incident to transportation \$3,000.

Item 10. Expenses of recruiting for the naval service, \$105,820.

Item 11. Rent of rendezvous and expenses of maintaining the same, \$131,033.02.

Item 12. Advertising for and obtaining men and apprentice sea-

men, \$2,000.

Item 13. Actual and necessary expenses in lieu of mileage to officers on duty with traveling and recruiting parties, \$2,000.

Item 14. Transportation of dependents of enlisted men, \$82,122.48.

A total of \$5,218,175.54.

TRAVEL ALLOWANCE OF ENLISTED MEN DISCHARGED AT EXPIRATION OF ENLISTMENT.

Mr. Kelley. Now give us an analysis of item No. 1, for travel allowance of enlisted men discharged at expiration of enlistment.

Captain Williams. There will normally be 41,000 discharges by expiration of enlistment in 1923. As explained in item 2, 17,000 d these will be given early discharges on or about July 1, 1922, in order to reduce the Navy to 65,000, the total allowed; the remainder, 41,000, minus 17,000, equals 24,000 discharges by expiration of en-These men must be returned to their homes or places of enlistment at a rate of 5 cents a mile, the average cost per man being **\$**62.70. The total cost of this item is 24,000 times \$62.70, or \$1,504,-The figure \$62.70, the average cost per man, is obtained # 800. follows: For the fiscal year ending June 30, 1921, Supplies and Accounts reports that the cash mileage amounted to \$2,619,508.51; we discharged during that time 41,792 men who received this milese; therefore the average cost is \$62.68 per man. During the fiscal year ending June 30, 1920, that is, the year previous, Supplies and Accounts reported that the cash mileage amounted to \$4,373,487.47; we discharged during that time 114,522 men, who received this mileage; therefore the average cost during that year was \$38.12 pc man.

Mr. Kelley. Before you take up item 2, the better way would be to exhaust each item as we go along. You feel that there was

o unusual conditions this last year which would not be repeated to coming year to bring that up from \$38 to \$63, speaking in round umbers?

Captain WILLIAMS. I am estimating on \$63: it is a hard estimate make but, in my opinion, the differences which caused that excess

f \$63 over \$38 still exist.

Mr. Kelley. To what do you attribute that increase, principally? Captain Williams. I attribute it principally to the fact that the eet has been divided. The fleet, speaking approximately, went to be west coast in the fall of 1919; therefore, that element did not arry its full weight in the average which is expressed in the \$38 er man, but it begins to show its full force during the fiscal year 921, and I see no reason at the present time, unless conditions are adically changed, why we should take anything but the last average, that is, \$62 or \$63, in round numbers.

Mr. Byrnes. What is the explanation? The fact that the men-aveled a greater distance from the Pacific coast or their enlist-

rents expired there?

Captain WILLIAMS. We have made a very minute study of the natter and I may summarize it by saying that the vast majority f men who are enlisted come from the east coast; many of them ave to be sent to the west coast and that brings the average of ransportation up as long as the fleet is divided.

Mr. Byrnes. If that be true, you have really increased the numer of ships on the Pacific coast over and above what they were in he year ending June 30, 1921, have you not? Have you not more hips on the Pacific coast to-day than you had June 30, 1921?

hips on the Pacific coast to-day than you had June 30, 1921?
Captain Williams. Yes, sir; I do not know about more in num-

er but more men.

Mr. Byrnes. Have you more men?

Captain WILLIAMS. I think we have; yes. Therefore, the aver-

ge would tend more to go up than it would to come down.

Mr. Byrnes. If you base it on the fact that the fleet is on the racific coast and you now have more ships on the Pacific coast than ou had in the year ending June 30, 1921, I do not see how you can tope for much of a change.

Captain Williams. We can not hope for any decrease, and our

est figure is the average for 1921.

Mr. Byrnes. And that is the real explanation in your mind?

Captain WILLIAMS. In my mind that is the explanation, at least, he greater part of the explanation; there may be others of a minor haracter but they would, to a certain extent, be more subject to lispute, and I am not prepared to say whether that is the whole ause.

Mr. Davis. Has the cost of transportation increased?

Captain WILLIAMS. I think it has.

Mr. Davis. You said 5 cents per mile; has that been the established rate?

Captain WILLIAMS. That is law.

Mr. Davis. And you think otherwise than that the cost of trans-

portation has been increased?

Captain Williams. I am inclined to think it has, but I would not use my opinion entirely on that; I prefer to base my opinion on the reater length of travel.

Mr. OLIVER. I understand you have a mileage allowance of 5 cents! Captain WILLIAMS. This is for enlisted men, and the law requires

that they be paid 5 cents.

Mr. OLIVER. Since you predicate the increase almost altogether on the division of the fleet, which results in longer travel from the Pacific coast, I am wondering, if Congress should largely reduce the enlisted personnel as you indicated, whether you could not save considerable money to the Government by having the enlisted men brought, not over the railroads, but around to the Atlantic coast on some of your own vessels and distributed from the Atlantic coast.

Captain WILLIAMS. We do that to the very greatest extent pos-

sible.

Mr. OLIVER. In other words, a difference such as your estimate here shows would certainly justify the assembling of these men and bringing them on your own vessels and then sending them to their homes from the nearest ports on the Atlantic!

Captain WILLIAMS. If a man is discharged on the Pacific coast

and his home is in Chicago——

Mr. OLIVER (interposing). You do not eatch the point. You are contemplating the discharge of many of these men in advance of the time when they would be entitled to their discharges, and you are given that right. Now, if in running over the list of those whom you intend to discharge you find that a large number come, say, from the territory around New York or Boston, could you not, with very great saving to the Government, bring those men by boat through the canal and have them discharged on the Atlantic rather than on the Pacific coast?

Captain WILLIAMS. That is done, sir.

Mr. OLIVER. Well, you would do it to a larger extent. If you were served with notice long before July as to the number you would be required to let go, could you not begin to assemble them on your list and know where they were going? Do you not think you could do that?

Captain WILLIAMS. We would try.

Mr. OLIVER. Would you not be able to do it?

Captain Williams. I am unable to say, but every effort is made

to do that, Mr. Oliver.

Mr. OLIVER. Suppose Congress should determine to cut your enlisted personnel to 65,000 or 70,000, which would result in your dismissing from the service early in the next fiscal year a large number of men, you would, of course, begin at once to determine whom you could best afford to spare, would you not?

Captain WILLIAMS. Yes, sir.

Mr. OLIVER. And where you found that their enlistments would end anyhow during the next year, of course, you would let them go first, would you not?

Captain WILLIAMS. Yes, sir.

Mr. OLIVER. And with a list thus made out, it seems to me you could work a large saving by adopting a different plan from the one you suggested and which you think will result in this great increase from \$38 to \$63.

Captain WILLIAMS. The plan you speak of, of boat, let us say, from the Pacific to the port one which is included and has been inclu

their homes, is averages, both e \$62.70 and the \$38. It is possible, if these discharges take place thin short periods of time and in large numbers, that some develop-

ent of the scheme of which you speak might be possible.

Mr. Oliver. Here is the idea I had in mind: I can understand, if e Navy continued at its present strength and the enlistment periods ded just as they have in the past from time to time, that it would impossible to collect, perhaps, at one point a large number of en, put them on a boat, and send them to another place, but if you e to be served with notice that you must get rid of 30,000 or 40,000 en at a certain time in the future, and you say all of this increase is ne to the fact that a large number of those men are on the west ast and you have got to pay heavy transportation charges across e continent for them, of course you could assemble those men, put em on a boat, and bring them around at much less cost.

Captain WILLIAMS. We have made certain allowances, which will velop later, in trying to discount the difference between the ordinary te of discharge and the excessive rate of discharge that we contem-

ate will take place before July 1, 1923.

Mr. OLIVER. So, if we gave you this amount that would not in any av discourage you in your efforts to economize by assembling them id bringing them around by boat if you found that was feasible?

Captain WILLIAMS. Not in the least.

Colonel ROOSEVELT. I think I can say on that point that the parcular idea you have in mind has been worked over by the departent and that is intended to offset the fact that we have been tending get more and more men on the coast, and that therefore, under dinary circumstances, the \$63 should be more instead of less this We are counting on offsetting it by trying to assemble the men st as you say; we are trying to offset the probable increase by tryg to assemble the men just as you say.

Mr. OLIVER. You mean assemble them for discharge?

Colonel ROOSEVELT. Yes; just along the lines you have stated; e are counting on that to offset it rather than to decrease.

Mr. OLIVER. What do you mean by offsetting?

Colonel ROOSEVELT. Offsetting an increase rather than a decrease. other words, we have more men out there now than we had before, id we have been moving more ships out there. Now, if we are to semble them and bring them back, and thereby reduce the cost, e offset the increase to the \$63.

Mr. Kelley. Now, Captain, you want \$1,504,800 for travel allowice of enlisted men that are to be discharged after July 1 next?

Captain Williams. Yes, sir.

Mr. Kelley. Mr. Oliver asked you a very pertinent question, as whether or not in reducing the Navy between now and the 1st July you would not make a reduction largely from those men hose terms of enlistment expire next year.

Captain Williams. I think you will find that in item 2, sir.

Mr. Kelley. That would make a great deal of difference with

Captain Williams. No. sir.

Mr. Kelley. Why would it not!

Captain WILLIAMS. Let us take item 2.

Mr. Kelley. No: let us finish up item 1. Why would it not?

Captain WILLIAMS. If there had been no effort to reduce t would be approximately 85,000 men on July 1, 1922. It is prop to discharge—and this is the point I want to call to your attentiat once, that is to say, between now and July 1—and I hesitat put that in this estimate, because it will legally come into 1922 would be a deficiency, but I have put it in here to make it plai 17,000 men, 1,000 chief petty officers, and 16,000 other ratings, to be selected from those whose enlistments will expire during !!

Mr. Kelley. How did you happen to put down the figure 17, out of the 41,000 that you would take out between now and the of July and leave 24,000 whose terms will expire after the 1st of J and to be sent home next year! How did you arrive at that!

Captain WILLIAMS. Let us start with the \$5,000 to which the N₁ would normally be reduced on July 1, and to get down to 65, would cause a reduction between now and July 1 of 21,000. At right?

Mr. Kelley. Sixty-five thousand from 86,000 is 21,000. I arithmetic is all right. I do not know as to anything further the

that.

Captain WILLIAMS. We did not desire to discharge that many non the notice which we are going to have to do it. We placed number at 17,000 arbitrarily. We then expect that before these charges take place on July 1 we will have a little over 65,000.4 that surplus we will take care of in the method we have describere to the committee as a method of easing down, letting the gradually go out, so that by July 1, 1923, we may be forced in averaging to come down and take up that slack somehow or oth These other features mean the question of being able to have perhaps, the excess of chief petty officers at that time. That 17.0 taken from the 41,000 leaves 24,000 which I have spoken of.

Mr. Kelley. You intend to discharge more than enough to br

the Navy down to 86,000 by the 1st of July!

]

Captain WILLIAMS. Yes, sir. We intend to bring it down, if y

want it that way, to 86,000 minus 17,000, or 69,000.

Mr. Kelley. You pick out of those you are to discharge ahead time, ahead of their expirations, 17,000 whose terms expire next ye Captain Williams. Yes, sir.

Mr. Kelley. And 4,000 more of those who have a longer enlistm next year, making 21,000 extra to come out between now and 1st of July?

Captain WILLIAMS. No. sir: that is not my understanding.

Mr. Kelley. I will repeat it. Captain Williams. Please.

Mr. Kelley. You are going to discharge, in addition to those a naturally drop out between now and the 1st of July, 21,000 more at

Captain WILLIAMS. No. Mr. Kelley. Please tell me.

tain WILLIAMS. We intend to discharge between now and July 17,000 of those whose enlistments expire in the fiscal y

. Where do you get the other 4,000 to bring it do

fiscal year :

we expect to a

Mr. Byrnes. If this were not done, then, there would be 24,000 disharged during the next year?

Captain WILLIAMS. There will be 24,000 discharged.

Mr. Kelley. You do not intend to reduce the Navy to 65,000 nder those figures by the 1st of July?

Captain Williams. I am unable to state that, Mr. Kelley.

Mr. Kelley. Under those figures how can you state it?

Captain WILLIAMS. Limited just to these figures, that is a false ssumption.

Mr. Kelley. You are reducing the Navy to 70,000 under these

gures by the 1st of July?

Captain WILLIAMS. You know and I know, Mr. Kelley, that there

re other people who go out of the Navy besides discharges.

Mr. Kelley. I understood you to say that for all reasons that you tnew anything about if you did not enlist any more the Navy would of its own weight drop down to 86,000 by the 1st of July? Captain Williams. Yes, sir.

Mr. Kelley. And that you proposed to take out of the 86,000 between now and the 1st of July 17,000 whose terms of enlistment xpire next year?

Captain Williams. Yes, sir; I propose to discharge 17,000; that

s a different thing.

Mr. Kelley. Then you propose to discharge 17,000, and the other i,000 who go out are odds and ends of people who you do not care to teep or who will possibly resign or get sick, unfit for duty, and all hat sort of thing?

Captain Williams. Plus, perhaps, some excess that may require pecial treatment like CPO of long service and others who we will

have to handle and may not be able to get rid of.

Mr. Kelley. Of those 4,000 that will go out, some of them, of course, will naturally be of the class whose terms would expire in 1921 ?

Captain WILLIAMS. We are getting all mixed. Mr. Kelley. No; we are perfectly straight.

Captain Williams. You asked me one question which was very lluminating. I do not think you got the answer. You said you do not propose to reduce the Navy to 65,000 by July 1; that is the rist of the question.

Mr. Kelley. What is the answer? Captain Williams. The answer is, "Perhaps not." You must Dear in mind that you are figuring on these things like you were dealing with materiel. When you and I have always talked we said that we could not do it. I think, under the circumstances, if we

went on to these other items that you would have a broader view.

Mr. Kelley. I believe not. I would rather go straight along as we have been going. Of the 4,000 others that will be discharged by

the 1st of July-

Captain Williams (interposing). I do not like to say that those 1,000 will be discharged by the 1st of July; they may or they may 10t be.

Mr. Kelley. If they are, some of them would be in the class of hose whose terms of collistment will expire during the coming fiscal

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You have not made any calculation for them at

Captain WILLIAMS. No.

Mr. Kelley. You have not taken into consideration the pretion of the 4,000 that will go out between now and the 1st of Juthis figure!

Captain WILLIAMS. In the first place, I think we are talking

cross purposes.

Mr. Davis. Why can not the 4,000 be discharged by the 1

July ?

Captain Williams. They can. In the first place, there are a problems that enter into it. This is a plan that we designed a best solution for a very complex problem.

Mr. Kelley. I think you have it all right, only you have not any allowance for the proportion of the 4,000 whose terms enext year. Suppose we make that calculation to help you out.

Captain WILLIAMS. I do not agree with you. Suppose we 65,000 on July 1; in the first place, we want every one of the 6

men. That is not the reason we are --

Mr. Davis (interposing). Can not you get along without the 4 Captain Williams: We want to get down to the limit gradin We have many ships in commission that will have to be put a commission, and probably other craft; we have men of long see who we would like to give as much consideration as the law along this bill passes by the end of this month, it will cost very more to put these complicated provisions into effect. This is way that our experience in handling these cuts in the past least to believe is the best way to handle it in the future. If we get down to 65,000 exactly by July 1, it will cost a lot of mone is a very, very expensive thing to do. It will cost much more anybody would believe. In the first place, you have got to disch pay, and do this thing and the other thing to reduce. As a matical result it would seem highly desirable; afterwards you we whether it is desirable.

Mr. Davis. Does it cost more to reduce by the 1st of July the

the 1st of August!

Captain WILLIAMS. No. sir. There are two ways of doing it it should be done when a man's time is nearly up, let him go and

Mr. Kelley (interposing). Your idea on that, Captain, wouldiffer materially from mine, that men should have a little a before they quit any position?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Have you the figures to show how many men discharged the last year on the Pacific coast who had to be

ported to the Atlantic coast?

Commander Brown. We have a table showing the enlist from July 1, 1920, to December 31, 1920, a half year, and it that 39,500 men were recruited from the districts east of the opi only 4,500 men from those west of the Mississippi.

is held practically all the time.

LEY. You would say that probably { per cent of the fic coast would have to brought here.

o e brought ho

Mr. Kelley. Then there would be but 10 per cent of railroad ransportation involved in this if you worked it out as you ought to? Captain Williams. You are dealing with averages. You have ot one-tenth of the figures on which to base the average.

Mr. Kelley. I am taking the young officers word, and if it is not

o, he is wrong, and I will have to change my conclusion.

Captain WILLIAMS. He is right.

Mr. Kelley. Then my conclusion is right.

Captain WILLIAMS. The elements that enter into the figure of 62.70 -

Mr. Kelley (interposing). That was when you were not watching, then Colonel Roosevelt did not have his eye centered there. ave not any idea that the figure for next year will be \$62.70 after Il that has been said and after all the thought you have given to his problem, which is a difficult problem?

Captain Williams. I will tell you very frankly that I know of no

etter figures.

Mr. Kelley. Of course, you do not.

Captain WILLIAMS. After all of this reasoning, if I could say it

7as \$50, I would advocate it. I know of no better figure.

Mr. OLIVER. Let me ask you this question: This picture arises o me as one of the problems and I imagine you have probably dealt with it. In determining the number of men you will discharge, in he event you are required to discharge this large number, bringing t down to 65,000 or 70,000, you must, of necessity, on the ships hat you are to keep in commission, transfer to those ships men rom other places in order to take the places of those discharged herefrom?

Captain WILLIAMS. Yes, sir.

Mr. OLIVER. And the cost of the transfer of those men is an item which you are bound to take into account in determining just what s going to be the ultimate cost resulting from the discharge, because

hat is an item which enters into the discharge?

Mr. Kelley. That is another item, Mr. Oliver. You have three ig transports and then you have cargo ships plying back and forth rom the Atlantic to the Pacific all the time; you are going to have ome five or eight of those and three transports plying back and forth, nd if you watched the thing pretty carefully you probably could ring quite a large percentage of those discharged back on those argo ships and on the transports and on the Shipping Board's vessels shich ply every day without any great expense to the Government. low much would it cost to go from San Francisco to New York by

Captain Williams. By the transports?

Mr. Kelley. If you had to pay your fare on a commercial vessel. Captain WILLIAMS. It would cost about \$300 or more.

Mr. Kelley. By water!

Captain WILLIAMS. Yes, sir.

Mr. Kelley. And on those ships it costs \$1 a day for food, if the

ip is making the trip anyhow.

Captain Williams. We have been speaking here for some time in e committee about making an allowance for the extraordinary uation.

Mr. Kelley. I want to ask you this further question: Have any information which would help the committee to work out w percentage of those discharged on the Pacific are brought back water?

Commander Brown. I can not give you any number.

Mr. Kelley. I should think that you people would know he many had to have their fare paid across the continent and how me were brought around by water.

were brought around by water.

Captain Williams. We do not bring them across the continent
Mr. Kelley. You bring them all back practically this way!

Captain WILLIAMS. Suppose a man is discharged in the excenter of the country; it makes no difference whether you bring! back by water.

Mr. Kelley. It would only make the difference between \$381

\$63, those in that class?

Captain WILLIAMS. Perhaps not. When you take the other traportation expense, I know of no way to figure the \$62 except the You are not disputing the \$62; you are disputing that the aver will not——

Mr. Kelley (interposing). That is right.

Captain WILLIAMS. I have allowed for that in another item.

Mr. Kelley. I am simply saying that one swallow does not ma summer. This one year you have had this experience. How m would it cost to transport a man on one of our own ships around to Atlantic, and then add that to the \$38 which it formerly cost to him home, on the average, and we would have some idea. Supple one of the cargo ships were coming home and you were to put men on her to bring to the Atlantic, how much would it cost Government?

Captain WILLIAMS. It depends entirely on how you figure.

Mr. Kelley. Here is the transport Hancock—if that is one of transports—coming round and you put 100 boys on her at San D and bring them to Norfolk; how much would it cost?

Captain WILLIAMS. Take their pay and loss of time-

Mr. Kelley (interposing). Just take the one item of transpotion.

Captain WILLIAMS. You are transferring this additional expeto the other item which we call replacements.

Mr. Kelley. We will leave that out.

Captain WILLIAMS. One hundred men from San Diego to !

folk will spend all their time on the replacement list.

Mr. Kelley. We will not talk about that. How much will it to bring those boys around from the Pacific to the Atlantic in own ships?

Captain Williams. It would cost practically nothing, except;

charge the running of the ship.

Mr. Kelley. No; the ship runs back and forth all the time. It storeships have to come around to the Atlantic to get stores and back.

Captain WILLIAMS. Yes, sir.

Mr. Kelley. And when they come over they could bring the be Captain Williams. That is the practice; that is included in \$62.70.

Mr. Kelley. I wish whoever is the mathematician in your firm ould tell me how much it costs to bring a man from the Pacific to e Atlantic so we can add it to this \$38. You say that it would not st anything.

Captain WILLIAMS. If you cut out his pay.

Mr. Kelley. Not pay, but just the question of transportation.

Captain WILLIAMS. It will not cost any more.

Mr. Kelley. Would not the \$38 do it?

Captain WILLIAMS. I have the facts and the facts are expressed in is average. It costs with the application of this theory that you

Mr. Kelley (interposing). Have you brought them around?

Captain WILLIAMS. Up to the present time in every conceivable se in which it could be done it has been done that way. That actice is included in the \$62.70 average. You say that this coming ar will be extraordinary?

Mr. Kelley. I think it will go back to normal.

Captain WILLIAMS. All right. The discharges will be excessive, ry great, and consequently this practice you advocate will have a eater application. I have allowed for that large number of disarges in another item.

Mr. Kelley. The fact is you do not know what percentage of the ys you have brought back by water and what percentage you have

ought by land or what it has cost?

Captain WILLIAMS. I know that in the year 1920 it cost so much

ileage to discharge so many men.

Mr. Kelley. But you do not know how it was done that year and u do not know whether you were watching it as closely as last year. hat orders did you issue last year about bringing the boys from the acific to the Atlantic?

Captain WILLIAMS. That wherever possible they should be trans-rted by water. In fact, there have been times when the ship's sciency has been seriously interfered with by bringing back these ople and protests have been received, and also protests have been ceived about the manner in which some of the ships that came from e Pacific coast were overcrowded.

Mr. Kelley. Commander, what do you know about the cost of inging the boys from the Pacific to the Atlantic by water?

Commander Brown. What Captain Williams says is true; it would st less if you do not-

Mr. Kelley (interposing). Only figure in the transportation.

Commander Brown. If the ship is coming home, it costs nothing r transportation.

Mr. Kelley. You do not know, as a matter of fact, what percente last year was brought that way?

Commander Brown. No, sir.

Captain WILLIAMS. We can very easily get that for you.

Mr. Kelley. I wish you would.

Captain WILLIAMS. It would not give you anything you want.

Mr. Kelley. It will help me; it may not help you. Commander Brown. The \$62.70 is based on relatively the same ures I quoted as to place of enlistment and also the same proposin you are making now that the men be brought back from the st coast so far as possible in naval ships.

Mr. Kelley. The only question is whether "as far as possible" means really that or not.

Commander Brown. Yes. sir.

Mr. Kelley. Whether or not you have actually carried them as

far as possible that way.

Commander Brown. You would have nothing but naval ships performing transport duty, taking men around to be discharged.

Mr. Kelley. How many men do you discharge a month? Captain Williams. Forty-one thousand a year; 4.000 a month.

Mr. Kelley. That is in all the service, in the Atlantic and in the You have only half of your people there. You would have to transport 2,000 a month back from the Pacific, or, say, 1.500.

Captain Williams. If there is any better figure than \$62.70. let

us take it.

Mr. Kelley. I am trying to get one.

Captain WILLIAMS. Let us agree as to the difference, if there is difference, and let us take any figure you please and multiply it by the number of men to be discharged, and if there is a deficiency, can be met later.

FOR TRAVEL ALLOWANCE TO MEN GIVEN EARLY DISCHARGE.

Mr. Kelley. Take the second item. How did you get that

Captain WILLIAMS. This is a figure that I want to call your attention to and to explain that this sum of money more properly belong to the appropriation for 1922, and I introduced it here to make the situation clearer.

There will be approximately 85,000 men in the service on July 1, 1922, and this number must be reduced to about 65,000. It is proposed to discharge at once 1,000 chief petty officers and 16,000 other ratings, these to be selected from those whose enlistments will expire during 1923. For transportation of these men to their homes at \$62.70 per man, 17,000 by \$62.70 equals \$1,065,900. Mr. Kelley. That will be a deficiency?

Captain WILLIAMS. That is more properly called a deficiency.

Mr. Byrnes. For this fiscal year?

Captain Williams. Yes, sir.

Mr. Kelley. That item should come out of this bill entirely?

Captain WILLIAMS. If you approve this plan.

Mr. Kelley. This is an item which could be determined absolutely a little later on, if it is a deficiency!

Colonel ROOSEVELT. It is this year's deficiency.

FOR TRANSPORTATION OF ENLISTED MEN, APPRENTICE SEAMEN, AND APPLICANTS FOR ENLISTMENTS.

Mr. Kelley. Go to the third item.

Captain Williams. The 24,000 men discharged by expiration of enlistments must be replaced. In addition, there will be about 8.009 lost by other than "honorable" discharges, such as deaths, desertions, bad conduct, and dishonorable discharges, medical surveys du to own conduct, etc. This means that 24,000+8,000=32,000 replace ments are necessary. Of the 24,000 "honorable" discharges, it estimated that there will be 14,000 reenlistments. The remainder ust be made up by first enlistments; 32,000-14,000=18,000 first listments required.

Men reenlisting are sent to ships direct, at an average cost of \$38.19 \exists r man. For this there is required (a) $14,000 \times \$38.19 = \$534,660$.

Newly enlisted men are sent to training stations, at an average st of \$31.12, and later to ships at an average cost of \$22.71 per The total cost per recruit is, therefore, \$53.83, and for 18,000 (b) $18,000 \times \$53.83 = \$968,940$. The total for this item is 1,503,600.

Mr. Kelley. Of the 24,000 men whose terms of enlistment will captain WILLIAMS. Fourteen thousand.

Mr. Kelley. That is 60 per cent?

Captain Williams. Yes, sir.

Mr. Kelley. That is based upon your experience in the past? Captain WILLIAMS. Our experience in the past has been around per cent, but owing to circumstances we raised it a little bit. In Idition to that, we lowered the 8,000.

Mr. Kelley. That would be 14,000 who would be brought back · their homes on the Atlantic coast, probably?

Captain WILLIAMS. Yes. sir.

Mr. Kelley. There is no dispute about that item, I suppose. hen, to make up the difference between that and the number quired, you figure you would have to have 18,000 reenlistments first enlistments, one or the other?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. You figure that they will come back at the same rate? Captain Williams. Yes, sir.
Mr. Kelley. Now, the probabilities are that out of the number people who may have been discharged, you can reenlist a much rger proportion than you have figured. The amount in money ould be the same, but you would get a larger percentage of people it of this great force that has been discharged, and it is probable at there would be so many that would want to come back that the imber would exceed 60 per cent of those whose terms of enlistment

Captain WILLIAMS. My normal estimate on reenlistments is 50

r cent.

Mr. Kelley. Between now and the 1st of July you will discharge ,000 men ahead of time, and during the next year, after those boys ve been out for a few weeks or months, have you not an idea that ite a large percentage of the 17,000 would reenlist for two years or ir vears?

Captain Williams. Experience is all that we can go by. For the t two years we have developed the search for reenlistments to a

rv high degree.

Mr. Kelley. During the next year you would have a method en to you, though. You would discharge for expiration of enlistnts 41,000 men.

Captain Williams, Yes, sir.

Mr. Kelley. And out of that number, you would probably get k 24,000 ?

Captain Williams. No. sir; we would probably get 20,000. 1r. Kelley. You figured on 60 per cent, did you not?

Captain Williams. That, as I say, is on account of the fact t this is an extraordinary year. For that reason I am figuring 601

Colonel Roosevelt. In the 14,000 that Captain Williams is spe ing of, he is including. I believe, the reenlistments of people who he been in the service before and who will come back.

Mr. Kelley. Your experience this last year has been that y have had more than 60 per cent of reenlistments. He is only tak last year's experience, and not even quite that.

Commander Brown. Last year's experience was about 68 per ce

Mr. Kelley. It was almost 70 per cent that came back.

Colonel Roosevelt. I think there is a misunderstanding ab

Mr. Kelley. What percentage of those whose terms of enl ments expired have reenlisted this year!

Commander Brown. About 68 per cent.

Colonel ROOSEVELT. But that 68 per cent did not represent people whose terms of enlistment expired and who immediate reenlisted, but it represents people whose terms of enlistment exp plus people who had been in the service formerly.

Commander Brown. That is correct.

Mr. OLIVER. What number represents the plus?

Commander Brown. We have not attempted to segregate tha Mr. OLIVER. I want to know that. I do not think that give any information unless you can give us the number representing plus.

Commander Brown. The reenlistments represent the men

had previously served in the Navy.

Mr. Byrnes. You include in that 60 per cent any man who previously served in the Navy and who reenlists! Commander Brown. Yes, sir.

Mr. Oliver. Are you able to state that number who had been the service previously as distinguished from those who immedia reenlisted upon the expiration of their term of service?

Colonel ROOSEVELT. It would be a reenlistment, but a non-

tinuous service.

Commander Brown. I can not give that information offlu I would hesitate to guess.

Mr. Byrnes. Suppose you find out and put it in the record.

Commander Brown. I will do so.

Mr. OLIVER. That is a very interesting matter, and I just assuthat, in order that you might be able to give that information only to the service but also to Congress, you doubtless were keep an estimate of the number that you are able to secure from the sources with which you hoped to fill those important positions remember that when you asked for favorable legislation that we call them back, you stated that that inducement would be require order to get them; you stated that you knew how many there who were available and who would be likely to accept the invita on t favorable terms granted, if you were allo 1 the legislation

Brown. We can find out, by in the l y, how many of them rice, and

tion of the rece reenlisted in are simply b stments. We have the figures available so far as the recruiting is oncerned.

Mr. OLIVER. I know that the Navy generally does things pretty ficiently, and it occurred to me that this list should be kept up at ll times, so that you would know from what sources your replenishent forces would have to come.

Mr. Davis. Would not the same conditions that existed last year ontinue for another year?

Captain WILLIAMS. We are talking about two separate things.

Mr. Davis. Would not the same conditions exist?

Captain WILLIAMS. The two statements are conflicting, and there a misunderstanding of the word "reenlistment."

Mr. Byrnes. For the purpose of this item, it makes no difference. Mr. Kelley. Captain, I think you made a mistake in these gures: You are going to start off now with 65,000 on the 1st of uly, and then you are going to lose how many? You have figured out there as 17,000, have you not?

Captain Williams. No, sir; by the 1st of July we will lose 24,000

lus 8.000, or 32,000.

Mr. Kelley. You have 65,000, and you will lose 24,000 men? Captain WILLIAMS. Plus 8,000.

Mr. Kelley. You will lose 24,000 by expiration of enlistments.

Captain Williams. Yes, sir; plus 8,000. Mr. Kelley. What about the 8,000?

Captain Williams. The 8,000 will go out for other causes.

Mr. Kelley. Making 32,000 altogether?

Captain Williams. Yes, sir. We have cut that 8,000 down elow what I would normally expect. That is by reason of taking ito account the extraordinary character of the personnel problem is the next year. If you discharge all of those men, or if you are oing to change the number, it is quite conceivable that the number ho would go out on medical-survey discharge, bad-conduct disharge, those who run away, or are deserters, etc., will be decreased. herefore, I have decreased that 8,000 below what I would normally xpect it to be.

Mr. Kelley. If you have included the 8,000 down here, then this gure of 65.000 should be 69,000. You have 4,000 too many in You have counted the 4,000 that are going to go out between

ow and the 1st of July in this calculation.

Captain WILLIAMS. I did not say that they would go on the 1st f July.

Mr. Kelley. You said that the Navy would be reduced by 4,000

ien from various causes, bringing it down to 65,000.

Captain Williams. I did not intend to say that we would reduce he 65,000 on the 1st of July. I tried to make it as plain as I could nat I rather expected the Navy on July 1 would have to have more han 65.000 men.

Mr. Kelley. Your figure here would bring it back to what it was

n the 1st of July!

Captain Williams. I really do not see the bearing. We will lose 4.000 by discharge during the fiscal year 1923, and we will lose .000 men from other causes.

Mr. Kelley. No: because the 4,000 you will lose before the 1st of u_{y-}

Captain WILLIAMS. What has that got to do with the 8,0001 The only way to arrive at the 8,000 is to say that it is a percentage of either 69,000 or 65,000, represen ing discharges due to desertion insanity, disease, or any other causes than honorable discharge These are the discharges that are not honorable. It represents in other loss to the service besides honorable discharges, and it makes difference whether you call it 65,000 or 69,000.

Mr. Kelley. It makes a difference of 4,000.

Colonel ROOSEVELT. I think the trouble comes in connection will the problematical 4,000. The 4,000 is composed of a large number of certain long-service chief petty officers for whom we are considering legislation to place them on a retired basis. As you know, chief petty officers are out of proportion with the other ratings, that we have 4,000 to be called out by the 1st of July. not definitely determine even yet just exactly what it would he It would be composed of 80 per cent of an entirely separate item which would not reflect itself in the 8,000. I think that is the general situation.

Mr. Kelley. You start off on the 1st of July either with or without this 4,000 men.

Captain Williams. Yes, sir.

Mr. Kelley. If you start off with them, you do not want to replace them.

Colonel Roosevelt. If we start with 69,000-Mr. Kelley. You start off with 69,000 men!

Colonel Roosevelt. After the 1st of July, if this particular legilation which we are talking about goes through, the reduction will be an additional 4,000 plus the 8,000.

Mr. Kelley. I think we are nearly together. Captain WILLIAMS. I do not get your conclusion.

Mr. Kelley. If you will straighten me on the conclusion, I will 🜬

all right.

Captain WILLIAMS. That 4,000, if it is 4,000, will be included in either the 24,000 or the 8,000, and it will not be added to them. We will have the 32,000 to handle during the fiscal year 1923, no matter whether you start with 69,000 or start with 65,000. Suppose we start with 69,000, and suppose on the 2d of July we discharge 4.000 then our figures of 24,000 and 8,000 will not have changed.

Mr. Kelley. But the 4,000 men do not come back, and you are

providing for bringing them back.
Captain WILLIAMS. No, sir; I provide for replacements.

Mr. Kelley. We will figure that out. Why do you include 14,000

men at \$38.19 and 18,000 men at \$50.83?

Captain Williams. The 14,000 at \$38.19 are reenlisted men who do not have to go to the training stations and from the training stations to the ships. The reenlisted men go direct to the ships.

Mr. Kelley. Now, if my theory should be correct, and your reeslistments out of the whole body of discharged men would excel 14,000, then the number in excess would go at the rate of \$38.19 instead of at \$50.83?

Captain WILLIAMS. If that estimate of 14,000 is ng, that is true Mr. Kelley. You base that estimate of 14.0 listments upon the basis of 60 per cent of those whose en pire reenlisting hile your experience shows that 68 per cent of them have reensted?

Captain WILLIAMS. That is a misunderstanding. Commander rown says that 68 per cent reenlisted, but your question relates to nite a different thing. You asked how many out of this 41,000 will

enlist within a year, and I said 14,000.

Mr. Kelley. Here is a certain number that go out upon the expiraon of their enlistments, and you get back a number of them in the ay of reenlistments, and you get reenlistments from others who have ad previous service, the result being that you get back 68 per cent men who have had previous service, or that was the experience st year.

Commander Brown. Yes, sir; that is true.

Mr. Kelley. You have not figured it on any such basis as that at l, have you?

Captain WILLIAMS. No, sir.

Mr. Kelley. We will revise your figures.
Mr. Oliver. If the pay bill that is now being considered becomes law before July 1, since it materially reduces the pay of the enlisted en for the first four or six months, what effect would that have upon our ability to get new men or recruits into the service?

Captain WILLIAMS. I think we can get recruits, provided we can

low a career ahead of them.

Mr. OLIVER. You must remember that the young men we are going play to are, perhaps, not visioning any great career in the future, ut they will be attracted into the service by other and more immeate considerations. You will have in the service at that time men ho will be retained on a different basis from that of the man who iters now. I have been seriously thinking that matter out, because do not want to do anything that would in any way hamper you in plenishing these important places. I knew that you were topeavy in the higher places, and I was wondering whether you had ven careful thought to that phase of it.

Captain WILLIAMS. We have, sir.

Mr. OLIVER. In other words, this bill, if accepted, will retain by a iving clause the pay of those who will enter before the 1st of July. hen you will suddenly cut off those rates, and the men who will come afterwards will come in on an entirely different basis.

Mr. Kelley. It was stated the other day that they were hanging ound the recruiting stations to see what they would do about

enlisting.

Mr. Oliver. That is a matter of serious import to you.

Colonel ROOSEVELT. I do not think you will find a lot of them inging around.

Mr. Kelley. They will be going right in?

Colonel ROOSEVELT. They will either come in or decide to remain it. They will not hang around.

Mr. Kelley. We will take up item No. 4.

Captain Williams. Item No. 4 covers transfers of men between ips and stations, other than those noted in the above items. It rerages 66½ cents per man per month, or \$7.96 per annum. For a avy of 65,000 men this cost would be 65.000 times \$7.96 per annum, This includes the cost of the transportation of the

en discharged for physical disability due to their own misconduct,

and transfers of sick and insane. The cost of this item of expe items 5 and 6, respectively, is \$46,380. This amount deducted from the above, and the total cost of item 4 is then \$517. minus \$46,380, or \$471,020.

Mr. Kelley. Is that the same figure you gave last year for

entire movement of men in the Navy?

Captain Williams. I am not certain whether is is or not. Commander Brown. It was 134 cents per month per man. Captain WILLIAMS. This includes the cost of transportation of I discharged for physical disability due to their own misconduct.

TRANSPORTATION OF MEN DISCHARGED BY MEDICAL SURVEY.

Item 5 covers men discharged by medical survey for physical d bility due to their own misconduct. This represents 0.0022 of average strength. For 65,000 men this would be 143 men.] transportation only for those men to their places of enlistment, \$38.19 per man, there would be required 143 times \$38.19. **\$**5,461.17.

TRANSPORTATION OF SICK AND INSANE MEN.

Item No. 6 is based on the best available figures and represe 0.0069 per cent of the average strength that is sent annually to tuberculosis hospital at Las Animas, Colo. The average distance 1,600 miles, at 5 cents per mile, or \$80 per man. For a Navy 65,000 men the number so transferred would be 449 and the would be 449 times \$80, or \$35,920. The question that arises in mind there is about Las Animas. The location is only slightly ferent from the other, and if they do not go to Las Animas it be to some other place close by.

Mr. Kelley. These are tuberculosis cases?

Captain WILLIAMS. Yes, sir. For insane patients who are tr ferred to hospitals at Napa, Calif., and Washington, D. C., the aver transportation cost, including that of guards, is \$24.87. The m ber of the insane committed each year is 0.0031 of the total streng For 65,000 men the number of commitments would be 201, and cost would be 201 times \$24.87, or \$4,998.87. The sum of those parts of this item is \$40,918.87.

TRANSPORTATION OF RESERVES.

Item No. 7 covers the question of the transportation of reser and this is the best calculation we can make. The modified calculation produces about \$300,000. That involves a number of element Mr. Kelley. Give us the number of men to be transported

Captain WILLIAMS. I thas been getting pretty complicated, the \$300,000 is largely an estimate.

Mr. Kelley. Give the sum total with the number of men

have in mind and the average cost of transportation. Captain WILLIAMS. This is based on the assumption that 120 e in the reserves, and that 50 per cenu take the trai of men are allo al year 1922-23. A cert a nun ansportation t averi c

roduced by this calculation is \$834,975. Now, due to the fact that lany of the men live in States on the seacoast, we would reconsider nat estimate and make some reduction. We took States like lassachusetts and New York, Virginia and Florida, and cut them own. Finally we got \$300,000 as the net result of the combined alculations on the subject.

Mr. Kelley. Some of the men living back in the interior would ost more for transportation than others living nearer the seaboard?

Captain WILLIAMS. Yes, sir.

TRANSPORTATION OF CIVILIAN OFFICERS AND CREWS OF NAVAL AUXILIARIES.

Item No. 8 is put in simply to hold the title of the appropriation. While all the auxiliaries are now manned by reserves, and no civilians re employed, it is desired to retain the wording of this item in the ill in case it should be found necessary to employ civilians on this luty. Consequently, an arbitrary nominal sum is named for such . ransportation, namely, \$500.

TRANSPORTATION OF CIVILIAN OFFICERS DELIVERING DESERTERS, ETC.

Item No. 9 covers the sum necessary for the purchase of railway ruides for all stations, at \$12 each, and for the payment of the ransportation of civilian officers delivering deserters, the total mount being \$3,000.

Mr. Kelley. Is this largely for railroad guides for officers of the

lepartment?

Captain Williams. No, sir. If a man deserts and is apprehended, he railroad fare must be paid.

Mr. Kelley. Railroad guides constitute a small item in this?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. It is almost entirely for the apprehension and **lelivery** of deserters?

Captain WILLIAMS. I am not prepared to state just how it is

Mr. Kelley. Railroad guides for the department must represent small item.

Commander Brown. The railroad guides cost about \$12 apiece.

Mr. Kelley. How many do you buy?

Commander Brown. We buy a guide for each recruiting ship nd all other stations that handle transportation.

Mr. Kelley. How much would it be out of this \$3,000?

Commander Brown. I would have to look that up.

Mr. Kelley. It is a small sum and maybe you can give an approxiation of it.

Captain WILLIAMS. We can get the bills for them.

Mr. Kelley. I do not want to bother you with looking it up.

Commander Brown. It is probably \$600.

Mr. Kelley. And the rest of it is for the payment of officers in prehending deserters?

Commander Brown. It is for the payment of the transportation civil officers in apprehending deserters and also the posting of wards.

EXPENSES OF RECRUITING FOR THE NAVAL SERVICE.

Captain Williams. Item 10, expenses of recruiting for the naviscrvice. \$105.820. For recruiting bureau, \$69,000; expenses for faturing particular activities and for miscellaneous publicity. \$2.800; cards, signs, and exhibits, \$9,840; local printing, \$10,000; lodging and subsistence of applicants, \$42,000, and expenses of traveling a cruiting parties, \$5,000, producing a total of \$138,640. We tried a reduce that by cutting it down and we did cut it down by \$32.820, making the revised estimate \$105,820.

Mr. Kelley. Do you know what your cost per month now is!

Captain WILLIAMS. Per man per month!
Mr. Kelley. No; the total cost per month!

Captain WILLIAMS. These are the actual expenses, and dividing that by 12--

Mr. Kelley (interposing). I did not know but what you could give me about what you were paying per month.

Captain WILLIAMS. Our recruiting has almost ceased to exist.

Mr. Kelley. But how much is it costing you?

Captain WILLIAMS. I will get it for you.

Commander Brown. The figures which Captain Williams has real are the actual costs, or. rather, the sums appropriated for last year and we have cut those figures down to what we have indicated as our saving; we have tried to economize, and each station reports what it has spent from its allotment, and we have taken 12 times the average monthly saving for all stations in arriving at the \$105,000.

Mr. Kelley. Can you tell me how much it costs per month at th

present time!

Commander Brown. Not exactly.

Mr. Kelley. Approximately?

Commander Brown. The difference between \$105,000 and \$130,00 is \$25,000, and it would be about \$9,000.

Mr. Kelley. That is about what you are asking here?

Commander Brown. Yes, sir.

Mr. Kelley. And your recruiting stations are pretty well close down now?

Commander Brown. We have cut down from practically 330 main and substations at the beginning of last year to 33 or 34 stations to this year.

Mr. Kelley. And whether you have new recruits or whether we recall st experienced men, these places have to be kept open?

Commander Brown. Yes, sir. I think we have reduced the number as far as we possibly can.

Mr. Kelley. How many officers are at the recruiting stations?

Captain WILLIAMS. I think I have the figures here.

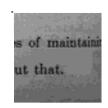
Mr. Kelley. I think that is the list showing the disposition your men, so you need not bother; we can find that.

Commander Brown. If my memory serves me correctly I thin

there are 67 officers.

RENT OF RENDEZVOUS, ETC.

FILEY. No. 1 No. 11.



Captain Williams. For operation of trucks at recruiting stations, 2 trucks at \$592.41 per annum, \$13,033.02; rental of offices, \$75,000; aint, varnishes, and equipment for recruiting service, \$3,000; and Discellaneous expenses, \$40.000: making a total of \$131,033.02.

Mr. Kelley. This is mostly office rent for recruiting is it not?

Captain Williams. Yes, sir.

Mr. Kelley. What do you mean by rent of rendezvous? That as a rather poetic sound.

Commander Brown. That is copied out of the old appropriation

It means recruiting stations.

Mr. Kelley. This is based on the number of stations you are now **n**aintaining !

Commander Brown. Yes.

Mr. Kelley. I understand the Marine Corps has put nearly all of its cruiting stations in Government buildings. Can you not do that

bis coming year?

Commander Brown. Just about a month ago we wrote to the Sureyor General of Real Estate—a new officer in the Treasury Departent who has charge of that—and asked for Federal space in all cities which we have navy recruiting stations, with the exception of New ork, and day before yesterday we had a reply from him offering us pace in only four cities. We already have Federal space in six others, rhich would still leave us 20 stations for which we must go out and nd space. Incidentally, during the last year we have been able to et the lessors of a number of recruiting stations to cut their amounts ery considerably.

ADVERTISING FOR MEN AND APPRENTICE SEAMEN.

Mr. Kelley. Now Item 12.

Captain WILLIAMS. Advertising for and obtaining men and aprentice seamen, \$2,000.

Mr. Kelley. That is an item which you usually carry at about hat amount?

Captain Williams. Yes, sir; but I think we have carried it at a uch higher figure.

Commander Brown. It has been higher, and it was higher in the 'ar years, but last year it dropped down.

Mr. Kelley. These are the posters which you put up advertising **fe** on the sea!

Commander Brown. This particular sum is for special advertising the way of newspaper advertising.

Mr. Kelley. You will not need to do very much of that.

Commander Brown. But, as a rule, we do not use that at all, and ne Secretary of the Navy has full jurisdiction over it.

Mr. Kelley. You will probably not use any of this item, but it is a

nall item, anyhow.

Captain Williams. The next is transportation of dependents of ilisted men, \$82,122.48.

EXPENSES IN LIEU OF MILEAGE TO OFFICERS WITH TRAVELING EXPENSES.

Mr. Kelley. There is another item, item No. 13.

Captain Williams. Actual and necessary expenses in lieu of leage to officers on duty with traveling recruiting parties, \$2,000. at was put in, I think, a year or so ago.

Mr. Kelley. That pays their actual expenses ! Captain WILLIAMS. Yes, sir.

TRANSPORTATION OF DEPENDENTS OF ENLISTED MEN.

Mr. Kelley. Transportation of dependents of enlisted mea,

\$82,122.48. On what is that based?
Captain Williams. That is based on the law which permits the Navy to transport the dependents of enlisted men the same as is done in the Army.

Mr. Kelley. Do you know what you have paid out this year sofu! Captain Williams. I could find out, but I have not the amount

Mr. Kelley. This is a good deal more than you estimated last year when you had a larger Navy.

Commander Brown. This figure is twelve times the average

monthly expenditure during the last year.

Mr. Kelley. But that was based on a larger Navy, and you ought

to make it six or seven times.

Commander Brown. It might be slightly reduced but I doubt it, because the appropriation for last year ran out within the first five months of the current fiscal year, and since then we have had to refuse applications entirely and we have simply had to use whatever Nav transportation there was. I do not think that sum is excessive; fact, I am certain it is not.

Mr. Kelley. That finishes the item of recruiting and transports

tion, does it not, Captain?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Then we might turn to the item in which Captain MacDougall is interested.

INSTRUMENTS AND SUPPLIES.

Captain Williams. That will be "Instruments and supplies." Mr. Kelley. This present year you had \$750,000 for "Instruments and supplies." What are your revised estimates for that, Captain! Captian MacDougall. These figures are based on a Navy of 65,000 men.

Mr. Kelley. How much have you there, Captain? Captain WILLIAMS. \$690,112. May I divide that?

Mr. Kelley. Yes; apportion that.

Captain Williams. This is for 65,000 men: Services and material in repairing, correcting, adjusting, and testing compasses on shore and on board ship, \$48,193; nautical and astronomical instruments and repairs to same, \$125,612; compasses, compass fittings, including binnacles, tripods, and other appendages of ship's compasses, \$252,774; logs and other appliances for measuring the ship's way, and leads, and other appliances for sounding, \$33,249; for the necessary civilian electricians, mechanics, inspectors, draftsmen, and clerical assistants for gyro compass testing, repair and inspection, and for chronometer caretakers, \$21,784; supplies for seamen's quarters, \$500; all pilotage and towages of ships of war, canal tolls, wharfage, dock and port charges, and other necessary incidental expenses of similar nature, \$165,000; libraries for ships of war, professional books hool books, and papers, \$20,000; maintenance of gunnery and other aining classes, \$18,000; photographs, photographic instruments, id material, \$500; and printing outfits and materials, \$4,500, making total of \$690,112. That estimate is the best we could make. ade estimates where estimates were possible and made proportionate ims where proportionate sums were possible, and the sum total is at result. Of course, what we will spend depends on what will tppen.

PILOTAGE.

Mr. Kelley. The pilotage item of \$165,000 seems quite large now tat our ships are not in foreign waters very much.

Captain WILLIAMS. It does not seem large to us.

Mr. Kelley. That is because you are in the habit of handling big

Captain Williams. No; it is because we are accustomed to han-

ing ships.

Mr. Kelley. I have a sort of recollection that the reason for this lotage item was the necessity for hiring pilots when our ships were proad in such large numbers.

Capt. WILLIAMS. It is not only abroad in large numbers but it is ependent on the amount of cruising and it is dependent on a thou-

and other items.

Mr. Kelley. Do we have to hire pilots in our own waters? Captain Williams. Oh, frequently. You take 22 feet of water in ie harbor at Portland, Me.

Mr. Kelley. And you have to call in pilots from the shore? Captain Williams. Yes, sir; and it would be taking an undue sk to do anything else. In the old days we took pilots into Hampton oads when we did not use them, the idea being to get those men customed to handling men-of-war.

Mr. Kelley. Do you know what part of this item is for pilotage? Captain WILLIAMS. Do you have it itemized in that way, Mr.

enkel !

Mr. HENKEL. No; we do not know how much was spent for that

ne item, because the reports are made to us combined.

Captain WILLIAMS. Pilotage, towage, canal tolls, wharfage, dock and port charges and other expenses of a similar nature were originally timated at \$183,500. That was for 100,000 men, and we cut it own through mathematics, if you please, to \$165,000.

Mr. Kelley. But you did not answer my question. How much of

us is for pilotage!

Captain WILLIAMS. I can find out.

Mr. Kelley. You do not have that information with you?

Captain Williams. No, sir.

Mr. Kelley. Would it be much bother to find out?
Mr. Henkel. I do not think we could find that for you, sir, in time

be useful on these estimates.

Mr. Kelley. I do not want you to go to much trouble about it cause it is a charge which must be met whatever it is, but somenes the House would like to know the total used for pilotage and sings of that sort.

Mr. Henkel. It is expended by the ships.

Captain WILLIAMS. But we might be able to get it if sufficient ti were available.

SERVICES AND MATERIAL IN REPAIRING, ETC., OF COMPASSES.

Mr. Kelley. I do not want to put you to too much trout Services and material in repairing, correcting, adjusting, and test compasses on shore and on board ship, \$48,193. What part doy

have in that, Captain MacDougall!

Captain MacDougall. That and the other items which are the marked "N. O." are the authority by which the Naval Observator under the Bureau of Navigation, orders the necessary articles provide for the upkeep of the navigation outfits of the Navy.

Mr. Kelley. You repair those at your place, do you!

Captain MacDougall. Yes, sir; but, of course, that involve much more than a repair item.

Mr. Kelley. You do not test them on board ship, do you?

Captain MacDougall. No. sir; but it is not all expended at t Naval Observatory for the reason that the work is often times do in navy yards; it depends a lot on the exigency of the case; if the is time and opportunity to send those things to this shop we ha them sent here, but sometimes the work is done in a navy yard.

Mr. Kelley. Do you pay the bills when the work is done in

navy yard!

Captain MacDougall. Yes, sir.

Mr. Kelley. Then this is really your fund?

Captain MacDougall. Yes, sir.

NAUTICAL AND ASTRONOMICAL INSTRUMENTS.

Mr. Kelley. Nautical and astronomical instruments and repa to same, \$125,612.

Captain MacDougall. That is the same as the last.

Mr. Kelley. That is, the facts about it are the same?

Captain MacDougall. Yes, sir.

Mr. Kelley. Does that mean the purchase of new astronomic instruments ?

Captain MacDougall. Not usually; no, sir.

Mr. Kelley. Could you buy new ones out of this fund?

Captain MacDougall. Occasionally a new type of instrume and occasionally a certain number.

Mr. Kelley. But the bulk of this is for repairs?

Captain MacDougall. Mostly for repairs, because when an inst ment is turned in from a ship it is necessary to put it in first-ch condition before it can be issued to another ship.

Mr. Kelley. On these scrapped ships there will be a good deal property of this kind which the Navy Department will have on has

will there not?

Captain MacDougall. Yes, sir; and in order to put it in in class condition it will-

Mr. Kelley (interposing). You will have to examine it, test it, and all that kind of thing to make it a CALL. We will have to .c] iŧ y ior in case

urate ! n hrst-class on put into comm in commission.

Mr. Kelley. But you will probably not have to purchase much?

at is what I was getting at.
Captain MacDougall. Very little, except, perhaps, some new type an experimental ship. If, for instance, somebody submitted a tally new design of sextant, which appeared to us very good, we ould want to purchase one or two for trial and test.

COMPASSES, COMPASS FITTINGS, ETC.

Mr. Kelley. This item for compasses, compass fittings, including nnacles, tripods and other appendages of ship's compasses, \$252,774, entirely for new material, is it not?

Captain MacDougall. No, sir; that is for the upkeep of the gyro

mpass and its appurtenances.

Mr. Kelley. And not for the purchase of new instruments? Captain MacDougall. No, sir. Upon that depends the whole e-control system of the ship as well as the steering when maneuver-

g in formation. Mr. Kelley. I suppose that should read "repair of compasses, mpass fittings," etc., should it not? The way you have it here it ould look as though it were for new material and you will probably ive a surplus of material of this kind growing out of the scrapping these new ships.

Captain MacDougall. No, sir; because the new ships which are

rapped do not have these things.

Mr. Kelley. They have not been ordered?

Captain MacDougall. They have not been ordered for any ships at are to be scrapped. That wording is used because it is the aditional wording of the appropriation.

Mr. Kelley. In this repair item you no doubt took into account

ie large number of destroyers that will probably be laid up?

Captain MacDougall. Oh, yes, sir.

Mr. Kelley. And also the scrapping of the predreadnoughts. Captain MacDougall. We began that estimate at something like 500,000 for the proper handling of all these instruments for the essels in commission, and then when orders came to reduce the numr it brought this down to \$252,774 without making any replaceents, that is, giving up the modernization and replacements that e thought we ought to have; we put all of that aside because we ere ordered by the Bureau of Navigation to cut the estimate down, nd as a result we have this figure, which includes the upkeep of ompasses on ships which are put out of commission, the cost of hich is much less than if they remained in commission.

Mr. Kelley. This does not include anything for keeping in contion the nautical instruments on the Connecticut or any of those

redreadnoughts like the Michigan or the South Carolina.

Captain MacDougall. This provides for keeping them in condition

ı **storag**e on shore.

Mr. Kelley. They will be taken off of those ships and put in orage and this might include some little item for putting them in

1ape for storage.

Captain MacDougall. They are instruments which will have to be in once a week, or something like that; they have to be taken care by special people, otherwise they are totally lost; but it is very small in comparison to what the cost would be if they were on bo ship.

Mr. Kelley. Have you a list of any new equipment you proposing to buy this coming year?

Captain MacDougall. In that particular item?

Mr. Kelley. In this appropriation.

Captain MacDougall. None in this item, sir.

Mr. Kelley. None under this item of instruments and suppli Captain MacDougall. No, sir; we have no such list because. I said before, we do not expect to buy anything except, of comwhat is necessary in the shape of upkeep, spare parts, and things that kind, which are bought from time to time to repair these d erent articles and keep them going.

Mr. Kelley. Is this the only item in which you are interest

Captain MacDougall?

Captain MACDOUGALL. The one at the bottom, sir, the last of

on that typewritten sheet.

Mr. Kelley. I mean in this particular item. I have not inquir about some of these other items because they are small and : undoubtedly all right. You are not interested in any other applications of the state of the stat priations in the bill except those you spoke about vesterday, a this appropriation under the head of instruments and supplies?

Captain MacDougall. No, sir.

Mr. Oliver. Captain Williams, speaking of the saving of exper in the discharges that you will be called on to give, and especia on the western coast, may I ask whether it is the purpose of t Navy Department, if it finds it is required to discharge a la number of men whose terms of enlistment will expire during the me year, to assemble its ships at a certain point and have the transpo there, if you carry out the idea mentioned by Colonel Rosseve so that the men can go immediately from the ships to the transpor thus saving expense at the stations, and also have the replacement there so that those men can take the places of the men leavi the ships—is that the idea!
Captain WILLIAMS. That is the idea wherever possible.

Mr. OLIVER. Then I imagine you would probably assemble the in the southern part of Claifornia, around San Diego, where vo fleet would have plenty of room to come in? Captain WILLIAMS. Yes, sir.

Mr. OLIVER. The idea is to have your replacements ready wh your ships arrive and have your transports ready to take from you ships those you are going to discharge, that is, when you find y have a sufficient number to discharge them in large groups, and the bring them around if any of them are to be discharged from the A lantic coast?

Captain Williams. Yes, sir. Mr. OLIVER. That is the idea, is it? Captain WILLIAMS. Yes, sir, but, of course, always with the qua whenever possible. LEY. I think the Bureau of Navigation has really be this good deal of zeal for sor months, with economies in transpo on this i very minute.

CONTINGENT.

Mr. Kelley. For the contingent item on page 27 you have an opropriation of \$20,000, and your estimate for the next fiscal year is 18,000.

Captain WILLIAMS. You may make that \$16,000.

NAVAL TRAINING STATION, CALIFORNIA.

Mr. Kelley. The California naval training station will be at San

Diego this year, will it not?

Captain WILLIAMS. I would like to say about these estimates that lave been made for training stations that the situation regarding the raining stations is rather involved and uncertain. I would like to xplain that we have communicated with the senior officers on the pot, and explained to them as much of the situation as we knew as it leveloped, or that we were able to explain, and I have not been able o satisfactorily adjust these sums to a condition which has not yet inally developed. Therefore, I am quite aware that these sums sked for are largely based on unknown conditions. For the Caliornia training station we have asked for \$125,000.

Mr. Kelley. Would it not be advisable this year to put in a proision for training stations making the several appropriations contitute one fund to be used at your discretion?

Captain WILLIAMS. I think so, making the funds transferable.

Mr. Kelley. This station in California will be the one that will be ept in operation?

Captain Williams. Yes, sir; that will be kept in operation, and we

sk \$125,000 for it.

Mr. Kelley. That is the amount you have spent down there for couple of years back?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Will the new school at San Diego be finished by the st of July?

Captain WILLIAMS. I hope so. I hope it will be ready by the st of July, and I think it will at the present time.

Mr. Kelley. In that event, Goat Island will be closed up? Captain WILLIAMS. That will be used simply as a receiving ship.

Mr. Kelley. No part of this \$125,000 will be used for the receiving

ation if the training station goes to San Diego?
Captain Williams. If it goes to San Diego, it will be transferred

Mr. Kelley. Have you the details that make up this \$125,000? Captain Williams. Yes, sir.

Mr. Kelley. You may insert the details in the record, showing the istribution of this \$125,000.

Captain WILLIAMS. I will do so. (The statement is as follows:)

Maintenance of naval training station, Yerba Buena Island and San Diego, Calif.: bor and material, \$150,000; buildings and wharves, none; general care, repairs, d improvements of grounds, buildings, and wharves, \$30,546.68; wharfage, ferriage, d street-car fare, \$1,609; purchase and maintenance of live stock, and attendance on me, none; wagons, carts, implements, tools and repairs to same, \$3,377.32; fire gines and extinguishers, \$100; gymnastic implements, none; models, and other

articles needed in instruction of apprentice seamen, none; printing outfits and rials, and maintenance of same, \$400; heating and lighting, \$70,544.80; static books, school books, and periodicals, \$1,936; fresh water, and washing, \$18,000; pa boxes and materials, none; and all other contingent expenses, \$22,636.20; mainter of dispensary building, \$850; lectures and suitable entertainments for appreseamen, none; in all, \$150,000.

This is the original estimate; a proportionate reduction must be made to kee

expenditures within the estimate of \$125,000 for 65,000 men.

NAVAL TRAINING STATION, RHODE ISLAND.

Mr. Kelley. The next item is for the naval training stat Rhode Island. You have an appropriation for the current fi year of \$185,000 for this training station. Have you used t amount this year?

Mr. HENKEL. No, sir; we asked the department for permis

to use some of it to save some of the buildings.

Mr. Kelley. You have not used all of it? Mr. Henkel. No, sir.

Mr. Kelley. How much have you used to date?

Mr. Henkel. I have not those figures here. Mr. Kelley. You are asking \$75,000 for next year?

Captain Williams. Yes, sir.

Mr. Kelley. Is that merely a maintenance item? Captain WILLIAMS. It is practically all maintenance. Mr. Byrnes. You have an item of \$60,000 for wages.

Captain Williams. For the maintenance and upkeep of the tr ing station there are included 1 joiner, 1 plumber, 1 pipe fitte electrician, 1 painter; for 150 days during the year 1 gardene general helpers, 1 laborer; and there is included the purchase a small amount of material, not to exceed \$1,000 in value. The items are reduced from an expenditure under operating conditi of \$70,000.

Mr. Byrnes. This entire amount is for wages that you are pay men to keep up the buildings and grounds?

Captain WILLIAMS. Yes, sir; this is to keep that small force go There is still a naval representative there.

Mr. Byrnes. That is not included in the \$75,000, is it?

Captain Williams. Yes, sir. He has to have certain der assistance.

Mr. French. That is nearly twice what you are spending

year !

Captain WILLIAMS. The items making up the estimate are eral care, repairs, and improvements to grounds, buildings, wharves, \$17,262; wharfage, ferriage, and street-car fares, \$ purchase and maintenance of live stock and attendance on se \$7,032.40; wagons, carts, implements, and tools, repairs to a including maintenance, repair, and operation of two horse-drapassenger-carrying vehicles to be used only for official purpe \$2.400

Es (interposing). Without going into those details. ation of the fact that you expended in 1921 for w you estimate an expenditure in 1923 of \$600 ad here is for labor. LL

Mr. Byrnes. This is the note below your estimate: Expended in 321, \$42,000 under the head of wages, estimated under the head of ages for 1922, \$33,000, and estimated for wages for 1923, \$60,000. he items constituting the total of \$75,000, as they appear in the stimate, are wages, \$60,000, and repairs and maintenance, \$15,000.

Captain WILLIAMS. That makes \$65,000?

Mr. Byrnes. No; that makes \$75,000.

Mr. Henkel. We do not ask \$60,000 for wages. The statement lentioned was inserted before a detailed estimate was secured from the training station. That statement is now changed by the detailed tatement from the training station.

Captain WILLIAMS. Suppose I read these items which, I think, will

xplain it. There are not very many of them.

Mr. Byrnes. It is useless to do that. I want you to explain the ifference, if anything has occurred to explain this difference. You lay have been using enlisted men for all I know, and you may not e using them now, and that may explain it; but there ought to be ome explanation of the increase from \$42,000 to \$60,000.

Captain WILLIAMS. In all probability that labor in one case includes he clerical force and in the year before that clerical force may have een carried by itself. However, I am not certain of that statement. Let I have these details, and there are only a half dozen or dozen

f them.

Mr. OLIVER. What are you asking for to-day?

Captain Williams. We are asking for \$75,000 all told, of which he items are: General care, repairs, and improvements to grounds, uildings, and wharves, \$17,262; that may include some labor; harfage, ferriage, street-car fare, \$200; purchase and maintenance f live stock, and attendance on same, \$7,032.40; there may be some abor there; wagons, carts, implements, and tools, repairs to same, icluding maintenance, repair, and operation of two horse-drawn assenger vehicles to be used only for official purposes, \$2,400; fire agines and extinguishers, \$1,200; heating, \$17,333; lighting and ower. \$6,000; salt-water flushing and fire protection, \$10,000; ationery, books, schoolbooks, and periodicals, \$300; fresh water and washing, \$4,500; all other contingent expenses, \$3,500; and pay I clerical, drafting, inspection, and messenger service, \$5,383.60, taking a total of \$75,000.

Mr. Kelley. As far as you know, it is the policy of the department

operate this station on the basis you have indicated?

Captain WILLIAMS. Until the situation changes and then there ill probably be a change in the policy.

Mr. Kelley. I suppose the limitation on clerical hire could be

sduced if we took a notion to do it?

Captain Williams. Perhaps so. They still have the records of a reat many men but those records can be transferred.

Mr. Kelley. This provides enough money to keep the plant in sod stand-by condition?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. So that nothing is running down?

Captain WILLIAMS. As I understand it, nothing is permanently eteriorating.

Note.—The commanding officer, however, states "the future only can tell whether not this appropriation will be sufficient to prevent serious deterioration of Government property."

Mr. Kelley. But it does not provide for the training of any at that place!

Captain Williams. No. sir. Of course, you understand that

dington Point is out!

Mr. Kelley. Is any money carried anywhere for that!

Captain Williams. No. sir.

Mr. Kelley. What happens to that?

Secretary Denby. That remains to be seen.

Mr. Kelley. You will take care of that by sale or lease?

Secretary Denby. In case we transfer training activities to ! port, Coddington Point, which is separate from the Newport sta and consists of temporary buildings, could and probably should abandoned, dismantled, and disposed of in some manner, or sin kept as a possible reserve for the future. At any rate, it should handled separately. I would like to say in that connection that inquiry made in the Senate the other day was directed wholly to cost of training men at Norfolk and at Newport, but that has been determined yet because there were some errors in the figure I would like to ask you, Captain, whether or not the ta asked for, to go into that record, have been furnished?

Captain WILLIAMS. I do not think that they have been furnish Secretary Denby. So that must still be regarded as somewha

Mr. Kelley. There might be other considerations besides question of economy, and it is a matter of administration.

Secretary Denby. Yes, sir; but economy would probably be a v

prevailing thing at that point.

Mr. Kelley. If you needed any money to make any immed repair to a water main or something of that kind at Coddington P there is nothing in the language here which would prevent your w money out of this fund, is there!

Captain WILLIAMS. I do not think so.

Mr. Kelley. These stations are regarded as one?

Captain WILLIAMS. But I do not think it would be wise. Ith it should be established as one thing or another; if Coddington Pc is going to fall down, let it fall down.

Mr. Kelley. But a water main might burst there? Captain Williams. If it had any effect on Coasters Harbor Isl that would be a different matter, but if these outlying shanties: going to fall down let them fall down. It is my understanding t principle was established in the Naval Committee and that we w not to spend money at Coddington Point or at East Camp.

Secretary DENBY. Of course, we are trying to get rid of East Car Mr. Oliver. What are you doing with the torpedo boat ho

near Boston! Are you using that now as a warehouse!

Captain Williams. No, sir; we are not using it now; we are using that as a receiving ship.

Secretary DENBY. That has been given back to the owner.

NAVAL TRAINING STATION, GREAT LAKES, ILL.

next is the Naval T

g Station, Gr

aptain Williams. I have here the reply of the commandant at at Lakes, which, I think, illustrates the point I was speaking ut before. For 1923 he is asking for \$360,000. That is estited in great detail and I am unable to do much more, under the umstances, than to quote what he says about it.

Ir. KELLEY. If it is not too long, but we do not want too much

he record about it.

'aptain Williams. His estimate is \$321,000 for 65,000 men. Ir. Kelley. Let me see if I can get at it by questions. Does

involve keeping up more than the permanent station?

'aptain WILLIAMS. I think it involves keeping the whole station epair except that on the other side of the railroad track.

Ir. Kelley. Why is it not feasible to move back into the per-

nent buildings and just maintain that much of the unit?

'aptain Williams. I feel convinced that it is. At the present e at Great Lakes there are some quite extensive trade schools, what the future will call forth in that way I am unable to say. largest item I find in the estimate is for heating, lighting, and airs to power plant equipment, distributing mains, tunnels, and duits.

Ir. Kelley. That depends very largely upon how much of those

buildings you heat?

Captain WILLIAMS. Yes, and it depends on how much you allow t elaborate system to fall into absolute disrepair.

Ir. OLIVER. You see, they have no central heating plant there;

y have a number of plants.

aptain Williams. In the winter out there I presume that if the er mains and steam mains are not looked after there may be ous damage done to them, and the station is not authorized to w this property to deteriorate to that extent without direct hority. I have here a summary which is not very long. Aside n the \$189,980 the largest estimate is \$38,500.

Ir. Kelley. The \$189,000 is for heating?

'aptain WILLIAMS. Yes, sir; heating, lighting, and repairs to ver-plant equipment; distributing mains, tunnels, and conduits.

Ir. Kelley. What was the other item?

laptain Williams. The next largest item is general care, repairs, improvements to buildings, \$38,500.

Ir. Kelley. That does not involve very extensive repairs on a big ce like that; it is just to keep things from falling down?

aptain Williams. Yes, sir. The next large item is for a fire-ting force, \$17,000.

Ir. Kelley. Do you remember how many boys we could handle re before we built these temporary buildings?

aptain Williams. Ten thousand.

Ir. Kelley. I do not believe it was that many; 2,500 is my recolion.

aptain WILLIAMS. No: it was more than that. Do you remember capacity of Great Lakes before the war?

Ir. Henkel. I have not that information; no, sir.

aptain WILLIAMS. It is more than that; my impression is 4,500. in the hearings.

TE.—The capacity was 1,500.

Mr. Kelley. My memory seems to be pretty clear that 2,500 the maximum figure before the war. The permanent buildings resent a very fine plant.

Captain WILLIAMS. It is a very fine plant. The whole thing

very fine, and it is an enormous place.

Mr. OLIVER. What about your lake wall there? We made appropriation for it, as I understand it, and have you completed t wall!

Captain WILLIAMS. I am unable to say how far that is complet That is not in the personnel business.

Colonel ROOSEVELT. It is not completed.

Mr. Kelley. I believe they want something like \$500,000 more that improvement.

Colonel ROOSEVELT. It is contracted for.

Mr. Kelley. The contract is let and the work is in progress. Mr. Oliver. That is necessary to save the old station.

Mr. Kelley. I think that is one of the special items in Yards a

Mr. Byrnes. In 1916 your appropriation was only \$80,000. Wh is the explanation of the increase to the amount here estimate **\$**360,000 ?

Captain WILLIAMS. By far the larger amount of the increase is d to the increase in the size of the station, which took place during t war, and also to the heating, lighting, and power plants. question we asked the commandant out there, and his answer is follows:

This excess is accountable for in many ways. The training station, despite t abandonment of the bulk of the war-time enlargement, is still very apprecial larger than it was in 1915, and those parts that were in existence then are some 7 ye older, and by June, 1923, will be 8 years older, requiring a larger expenditure for rep and upkeep. Materials and labor cost very considerably more to-day than they d in 1915; for comparison in this respect there is shown below a table that gives for set of the principal trades employed in the upkeep of the station the rate of pay per d in 1922 compared with that in 1915.

That explains it in part.

Mr. Kelley. Suppose we gave you twice as much as you had i 1916 on the theory of going back into the permanent building

would that be a fair way to handle it?

Captain WILLIAMS. I am unable to arrive at a conclusion that i entirely satisfactory to me under the circumstances. The officer of the ground makes that statement, and I have been unable to obtain any information which is sufficiently satisfactory to me to make m alter his estimate.

Mr. Kelley. As I recall, one of the training schools was the

aviation school?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. How many boys have you training in aviation there Captain WILLIAMS. The number has been cut down now. have only 62 in aviation.

retaty DENBY. Aviation and radio.

tain WILLIAMS. One hundred and thirty-nine machinists made

uiths, and 209 radio.

The no sp no special need of any aviation trains a station?

Captain Williams. This has been training for aviation mechanics ore than actual flyers.

Mr. Kelley. You can concentrate that so easily at Pensacola at it would not be worth while.

NAVAL TRAINING STATION, HAMPTON ROADS, VA.

The next item is the naval training station at Hampton Roads? Captain Williams. There is a training station which, as far as e know, will probably be the principal training station on the tlantic coast. We are asking for \$360,000 this year. Three hunred and seventy-five thousand dollars is what we had for the ear 1922.

Mr. Byrnes. You have reduced it \$15,000?

Captain WILLIAMS. Yes, sir.

Mr. Byrnes. What sort of buildings have you there?

Captain Williams. I think the buildings they are using are more rmanent, although they do require some repairs. Those in the ast Camp are of a different character and they are being disposed as rapidly as possible. They are maintained there, having a rege force of men, a watch of enlisted men and a certain guard that es around which could be done if the place were not occupied, it there are some complications about turning that property back its original owners on which I am not competent to speak. As I iderstand, the owners do not want to take it back.

Secretary Denby. The original proposition under which that operty was taken was that it should be restored in the same contion in which given. We have concrete roads and everything else, me \$6,000,000 of buildings on that real estate. The Judge Advocate eneral is in touch with a number of people who are making different ters of one kind and another to take over the salvaging and make e restoration. All we can do is to go ahead and get the best out it that we can. The last time I told one of the representatives the people that we would really restore it, that we would tear the concrete roads and salvage the whole thing and then they uld take the land. They do not want that.

Mr. Byrnes. Are you returning it with the concrete roads? Secretary Denby. What we are trying to do is to get the best rms we can make for the Navy. In the meantime it has to be otected.

Captain WILLIAMS. We are doing that largely with the enlisted en. The concrete road runs through the center of one fellow's lot d cuts off the corner of another one; that is the trouble.

Mr. Kelley. Captain, how many boys have you at the Hampton bads training station at the present time?

Captain WILLIAMS. On the 9th of March, 1922, in the various bools we had 1,812 men.

Mr. Kelley. That is all you had down there?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. Next year you might have a few more or a few less, t the upkeep of the buildings and the overhead expenses remain stty constant, regardless of the attendance?

Captain WILLIAMS. Yes, sir.

Mr. K 1-1.LEY. This is a part of the naval operating base and get your livest there?

Capta in Williams, Yes, sir, Mr. K. Elley, And your light? Capta in Williams, Yes, sir,

Mr. K ELLEY. So I suppose you can shut off the units?

Secretary Densy. We charge a percentage against the trainstation.

Mr. Kelley. If you are not using the training station to capacity you probably are not having to maintain the power p for this particular unit!

Secretary DENBY. No; it is central heating and the training sta

is charged.

Mr. Kelley. It depends on what they use?

Secretary Denby. No: they have made a fixed charge of 68 cent for the training school for the heat, something more than for the light, and something less for the water. I have forgotten it is. Those are the percentages carried on the books of the trainschools, percentages of the total cost of the power plant.

Mr. Kelley. These buildings in which the schools are located

temporary buildings, all of them!

Captain WILLIAMS. I think they are temporary, but I think t

are better buildings than the war-time buildings.

Mr. Kelley. Can you put in the record a statement show about how the \$360,000 will be applied, so much for repairs, and on!

Captain WILLIAMS. Yes, sir.

Note. This is the original estimate. Expenditures will have to be red proportionately in order to keep within the estimate of \$360,000.

Maintenance of naval training station, naval operating base, Hampton Roads, V

Labor, general care, repairs and upkeep	\$102.92
Labor, clerical force	13, 32
Truck transportation	8, 00
Cutting grass.	
Total labor	124,749
Material for general care, repairs and upkeep	206, 765
Material for maintenance, Machinist's Mates' School. Material for maintenance, Electrical School.	15, 500 13, 200
Material for maintenance, Artificer's School	
School books.	600.
Total material	246, 065.
Total labor	124, 749.
Total labor and material	370, 814



TUESDAY, MARCH 21, 1922.

NAVAL RESERVE FORCE.

STATEMENT OF CAPT. K. N. BENNETT.

Ir. Kelley. The next item is, "Naval Reserve Force." How ch do you want for that this year?

aptain Bennett. \$200,000; \$50,000 was appropriated last year l we spent \$251,000.

Ir. Kelley. What do you want with the increase?

Paptain Bennert. We spent more last year than we are asking this year.

•Ir. Kelley. Where did you get the money?

Paptain Bennert. It was money which was allotted to use-rener pay which would have gone to these people had they performed ir duty.

Ir. Kelley. You will have that next year? 'aptain Bennett. I am afraid we will not.

Mr. Kelley. Why not? Paptain Bennett. We do not know what we will get in the way retainer pay. We had to disenroll all the Naval Reserve on the h of September.

Mr. KELLEY. Under the law, if they did not train when called upon

y lost their pay and it went into this fund? Paptain BENNETT. It went into that fund.

Mr. Kelley. How much was it?

Paptain Bennett. We got at least \$150,000 out of that.

Ir. Kelley. Is there a balance in the fund?

Paptain WILLIAMS. No, sir. That fund lapsed on the first of the al year.

Ir. Kelley. Next year you think you will not get that large

Captain Bennert. I am afraid we will not, because the status of naval reserve appropriation is very uncertain; it is a general propriation for the pay of the reserve.

Ir. Kelley. And the whole reserve question is rather in the air?

'aptain Bennett. Very much.

Ir. Kelley. The Navy Department has not yet worked out what v want for a permanent policy?

becretary Denby. It is just about finished.

Ir. Kelley. Subject to the approval of Congress and naturally appropriation will come along through the usual channel, but for s year the thing is hazy and nebulous.

'aptain Bennett. This would tend to solidify it a trifle, anyway. Ir. Kelley. What you want this money for is to rent armories? aptain Bennett. Yes, sir; that is a part. There are several ns which come in there.

Ir. Kelley. Do you not think that the States should furnish the iories !

'aptain Bennett. The States furnish the armories. It is a little mixed up. This is a nationalized force. It is hardly right for States, because some are bearing considerable expense.

Mr. Kelley. If you had a fund like that out of which they could get rent they would be after you all the time to rent their armorist

Captain Bennett. Maybe it works the other way. The Federal Government is getting, for example, the use of the naval reserve armories in many States which State funds have paid for.

Mr. Byrnes. How many have you in the naval reserve!

Captain Bennett. About 15,000.

Captain WILLIAMS. Last fall we told them there was no par for

Mr. Kelley. Until you get the legislation.

Captain WILLIAMS. This force is not disbanded. It is simply transferred temporarily out of the class in which they receive par to the class in which they do not receive pay. Now, if in addition to that little thing you are going to take away everything else that they need for administrative purposes, they cease to exist. The law reorganizing them is just about to be considered. This is the administrative expense of administering a very large number of men.

Mr. Kelley. How many are there in the fleet naval reserve!

Captain Williams. Not so very many.

Colonel ROOSEVELT. I think about 5,000, Governor.

Mr. Kelley. Men or officers !

Colonel Roosevelt. Men.

Mr. Kelley. How many officers are there?

Colonel ROOSEVELT. Five hundred.

Captain Williams. In class 1-B there were 1,622 on the 18th of March and in class 1-C there were 937, and class 1-D, 1,747. Class 1-B are people who have had four years' service, about 5,000.

Mr. Kelley. Those are the only ones you are asking an appro-

priation for during the coming year?

Captain Williams. No, sir.

Mr. Kelley. Here are 5,000 men in the fleet reserve and 50 officers; who else are you asking to have paid the coming year? Secretary DENBY. We absolutely do not know.

Colonel ROOSEVELT. I should like to explain the situation. have worked on it a great deal lately. It divides itself into tw separate problems. The ex-service men who are in the fleet reserv are paid by law.

Mr. Kelley. That is what I am talking about.

Colonel ROOSEVELT. Yes, sir. That is separate and distinct from what corresponds to the National Guard, which is the Naval Reserv proper, composed of civilians like the National Guard. At the particular time, in view of the fact that we disenrolled all classe which had a retainer pay last time on account of the fact that w did not have enough money to pay them because of the obligation entailed by the fleet reserve, we have only a small number, I should say about 15,000, which have been transferred into the other classes As soon as the bill establishes them they will be back again.

Mr. Kelley. You carry in this bill a certain sum of money whit is to pay the 5,000 in the fleet reserve and the 500 officers?

al ROOSEVELT. Yes, sir.

LEY. And the 15,000 men that have not been disenrolled . It is pay now,

have a differen

Ir. Kelley. How many officers go with the 15,000 men? Colonel Roosevelt. I can not tell you offhand.

Saptain Bennett. The pay of the reserve is carried in the pay the Navy.
Ir. Kelley. I know where it is carried. How much?

Paptain Bennett. It has been arbitrarily put at \$4,000,000.

Ir. Kelley. There is the question as to how much money will be feited by reason of not training. Whatever is forfeited will e you the appropriation?

Colonel Roosevelt. No; the new bill-

Ar. Kelley (interposing). I am not talking about the new bill. Secretary Denby. They are not there; they have gone.

Mr. Kelley. The 5,000 in the fleet reserve are there?

Colonel Roosevelt. They are not called for training and have not

n called for training, so there will be no forfeiture.

Ir. Kelley. We have this option in this case, if we follow your tement as you give it now, which is to the effect that there will no forfeiture in either one of the classes, because there is no propriation.

Secretary Denby. There is no pay.

Mr. Kelley. Then, of course, it follows that the \$4,000,000 for

ich you are asking will go out, too?

Colonel Roosevelt. No, because, Governor, the fleet reserve is led to service and the fleet reserve money is paid on the basis of ir**eme**nt pav.

Ir. Kelley. Does that amount to \$4,000,000?

'olonel Roosevelt. Between \$2,500,000 and \$3,000,000; we do

Ir. Kelley. They get that whether they train or not? 'olonel Roosevelt. Yes, sir; it is just like a pension.

Ir. Kelley. What about the others?

Colonel ROOSEVELT. The others only get it if they train.

Ir. KELLEY. And if you do not call them for training they do not

any pav!

'olonel Roosevelt. No; but we intend to call them to train, but y would not have any forfeiture in the next bill, as I understand, ause they only get paid for service.

Ir. Kelley. Captain, in the administration of the existing law h reference to the Naval Reserve Force, it is your opinion that s fund will not be augmented by reason of pay being withheld nonservice and turned into this fund?

'aptain Williams. During the fiscal year 1923 this fund will not

naterially augmented.

Ir. Kelley. This current year you have not been getting anything

aptain Williams. Yes; in the neighborhood of \$23,000 will be .ted according to the accounting officers.

1r. Kelley. Last year we gave you \$150,000 for this purpose. aptain Williams. Yes, sir.

Ir. Kelley. How are you getting along this year on \$50,000? aptain WILLIAMS. I can shorten the answer to the question by ing that practically the entire Naval Reserve force outside of s 1 is waiting in class 6 until the Naval Reserve is reorganized.

Mr. Kelley. Why would it not be better to simply give you \$50.00 for this item this year and wait for the reorganization under the new bill!

Secretary DENBY. I think that would be all right.

RECEIVING BARRACKS.

Mr. Kelley. For receiving barracks, you estimate \$100,000. Captain Williams. The estimate is \$100,000.

Mr. Kelley. Is this for the New York barracks?

Captain WILLIAMS. It is for receiving barracks at the following points: Boston, Philadelphia, Hampton Roads, and San Franciso. It is desired to withdraw from the receiving ship at Puget Sound and substitute barracks. It also includes Charleston. This appropriation is subject to the question of the adjustment of policies with regard to shore stations.

Mr. Kelley. Suppose we cut out the receiving barracks and by you go ahead and handle these points just as you have been handling them in the main. You spent a good many millions of dollars a receiving barracks last year, and then you just pick out this little item here and carry it separately. I never could see any necessity

for it.

Captain WILLIAMS. I would like to go on that basis, with the Seretary's permission. I would like to go further and get a legal decision on the question of whether we should substitute a phrase her in order to make the current appropriation act applicable to some of these items.

Mr. Kelley. You can put all of the receiving ships and barracks under the same appropriation.

Captain Williams. Yes, sir.

NAVAL WAR COLLEGE, RHODE ISLAND.

Mr. Kelley. For the Naval War College, Rhode Island, you have an appropriation of \$90,950, and you are asking the same amount for the next fiscal year.

Captain WILLIAMS. That is practically the same thing. Mr. Kelley. This is where Admiral Sims is located?

Captain WILLIAMS. Yes, sir.

Mr. Kelley. When does he go on the retired list? Captain Williams. On January 24, next year.

NAVAL HOME, PHILADELPHIA.

Mr. Kelley. The next item is for the Naval Home at Philadelphia. This is a fund that is administered by the Navy, and it does not all

for an appropriation out of the Treasury.

Ca ain Williams. Yes, sir. I am particularly interested in the function of the reason.

I would like to have you look over this statement. The is it would like to call attention to there, and that it rate that they are allow by late of the way it is a second that they are allow by late of the way it is a second that they are allow by late of the way it is a second that they are allowed by late of the way it is a second the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of the way it is a second that they are allowed by late of

Captain WILLIAMS. I think so.

Mr. Kelley. What are these changes you have made in the text the bill?

Mr. HENKEL. There is one additional baker at \$720, and one porer at \$720 is changed to a helper pipe fitter at \$975, one addinal waitress at \$360; increase of \$315 for one woodworker helper; ree laborers at \$540 each, additional, total, \$1,620; elimination of e chauffeur at \$840; increase of \$400 for one stenographer.

Mr. Kelley. I think that will be subject to a point of order.

t leave these places just as they have been?

Mr. Byrnes. You do not have a baker now, and you would be

ablishing a new position.

Mr. HENKEL. The recommendation for the additional position of ker at \$720 per annum is as follows: The expenditure in 1921 for ead amounted to \$2.939.69, and it is estimated that the cost of king bread at the institution, including the pay of a baker, would \$2.280.96, indicating a saving of \$658.73 for bread alone.

Mr. Byrnes. You have no baker there now? Mr. Henkel. We have one baker. Mr. Byrnes. Where is his salary carried? Mr. Henkel. It is carried here.

Mr. Byrnes. It must be carried as an assistant cook.

Mr. Kelley. You want 11 waitresses instead of 10, and you want aborers at \$540 each instead of 5. Why do you want all of these ra people here? Is the population increasing?

Captain WILLIAMS. I think there has been a considerable improvent made up there lately. The place was running down, and we ve an energetic man in charge of it.

Mr. Kelley. This is a readjustment of your salary list and effects increase of about \$3,000 in the entire appropriation?

`aptain Williams. Yes, sir.

Mr. Kelley. This appropriation is \$47,280 for the present fiscal ar, and you are asking \$50,110 for next year.

Mr. Byrnes. What is the objection to leaving the amount at

7.280 and then rearranging these positions?

Mr. OLIVER. As I understand it, you occupy toward this home the ationship of trustees, and the trustees feel that they have sufficient ids to justify this expenditure without taking any part of the ncipal!

Captain Williams. It is something like that; yes, sir.

Mr. Byrnes. The balance, if any, is turned into the Interior

partment or into a pension fund?

aptain Williams. I do not know how much balance there is. nk that question of 3 per cent is a matter that will have to be en up at some time.

Ar. French. How many are in the home now? 'aptain Williams. I will insert that in the record.

Ir. French. I would be glad if you would supply that information the past two or three years.

aptain Williams. I will supply that for the record.

Ir. Byrnes. This fund represents 3 per cent upon an amount been fourteen and fifteen million dollars. Taking the lowest figure, would make \$420,000. When they put that amount to the credit the institution, they deduct from it the appropriation which is made here. If this appropriation of \$158,000 is deducted, it l a considerable balance over and above this cost, but, as I have the fund represents 3 per cent on more than \$14,000,000.

Mr. Kelley. There is a fund of \$14,000,000 to the credit of home, on which the Government pays 3 per cent interest. Three cent on that would make \$420,000, and when we deduct from the amount appropriated here, the balance goes to the pension fund

Captain WILLIAMS. Yes, sir.

NUMBER OF INMATES.

Mr. Kelley. I wish you would put in the record a little state showing the number of people in the institution as compared with number in previous years. Your statement should also show whe the inmates there now are on an average older and require more than those present in previous years. Of course, the expension maintaining the institution would be a little higher.

Captain Williams. I will supply that for the record. Number on roll, June 30, 1920. Admissions during the year...... Readmissions..... Died..... Discharges.
Remaining on roll, July 1, 1921...... Veterans of the various wars, on the rolls at the close of the year, number as 6 Civil War..... Indian War World War.... Philippine Insurrection..... Panama Expedition..... Nonveterans.... The following statement gives the total service in the Navy and Marine Co the beneficiaries on the rolls: Less than 5 years..... 5 years to 9 years. 10 years to 14 years. 15 years to 19 years. 20 years to 24 years. Over 25 years. The ages of the beneficiaries are as follows: Number. rs: Number. Years: 64..... 2 76. Years: Number. Years: Years: 50..... 1 76..... 52..... 12 65..... 35..... 53..... 3 66..... 78..... Ĺ 54..... 36..... 67..... 79..... 80..... 37..... 55. 68..... 1 40..... 56..... 69..... 81..... 42..... 57..... 8 70..... 43..... 58..... 83..... 71..... 84..... 45..... 59..... 72..... 1: 60.... 73..... 47 74.... 8 62.... 87..... 6 75-----63..... hat the ages vary 33 years to 87 ye

The beneficiaries are quartered in separate rooms, which are furnished with a single n bed. linen and blanket. small wardrobe; chair, bucket, towels, etc. The general health of the beneficiaries has been excellent, most of the ailments ing those due to age.

MAINTENANCE.

Mr. Kelley. For the maintenance of the institution you are king \$108,512, as against the current appropriation of \$110,366. ill you put in the record a little statement showing the distribution that estimate? Captain Williams. I will do so.

imates required for under the appropriation "Maintenance, naval home, Philadelphia, 1923."

•	
iter rent	\$ 132. 0 0
ating	15, 215. 00
thting	3, 800. 00
metery	800.00
rial expenses	811. 40
adstones	375.00
neral care and improvement of grounds	2, 000. 00
ildings	3, 400. 00
ılls	50.00
nces	22.00
pairs to power plant equipment	1,000.00
plements	500.00
ols	150.00
rniture	1, 200. 00
tsic in chapel	880.00
tertainments	1, 300. 00
ationery	350.00
oks	150.00
riodicals.	
ansportation of indigent and destitute beneficiaries	50, 00
ansportation of sick and insane beneficiaries.	100.00
aployment of beneficiaries	9, 480, 00
pport of beneficiaries.	63, 747, 00
ntingent expenses.	500.00
reation of one horse-drawn passenger-carrying vehicle	400, 00
peration of two motor-propelled vehicles.	1, 600. 00
peration of motor-propelled passenger-carrying vehicle.	500.00
And the second s	
Total	108, 512. 90

SALARIES.

Mr. Kelley. The next item is for salaries, Navy Department. here appears to be no change in the statutory salaries, except an crease for the chief clerk.

Captain WILLIAMS. That is the only change.

Mr. Kelley. You want that salary increased \$1,000?

Captain Williams. Yes, sir.

Mr. Kelley. We can not do it. Is there anything else?

Captain Williams. Yes, sir; there is a change in the additional ll. We asked for 197 and we changed it to 196.

TEMPORARY EMPLOYEES.

Mr. Kelley. You are asking for 196 more clerks? Captain Williams. Yes, sir; instead of 197. Mr. Kelley. That is besides the statutory list?

Captain WILLIAMS. Yes, sir. That is called the temporary and it has always been there. That totals \$247,400.

Mr. Kelley. How many clerks did you have in 1916 or statutory roll and how many temporary clerks!

Captain Williams. We had 73 statutory clerks in 1916. Mr. Kelley. This leaves an addition of 124 clerks?

Captain WILLIAMS. I have that for 1917, 1918, 1919, and Now we have the records bearing on those that took part in the war, and that work dies very slowly. In addition to that, we all these statistics to compile, and we have been absolutely un to get along with this allowance for clerks. In fact, we have

gotten along with this allowance of clerks.

For 1922 we asked for 465 clerks, and we got this number. made every possible effort to get along and produce those figures: were wanted and to do the routine work of the bureau, but it utterly and absolutely impossible. We therefore borrowed 13 of clerks from other bureaus. We borrowed clerks from the Veten Bureau to do Veterans' Bureau work. We borrowed from them a clerks and we borrowed two from the Bureau of Vocational Train When in order to make the estimates for recruiting and transport tion, we brought in a few enlisted yeomen. The loss due to in perience among these clerks and the lack of numbers means expense to the Government that it is difficult to calculate. Wer speaking a few moments ago about the reserve business and of wild guessing that was going on there. Most of that guessing due to the absence of experienced clerks. It did not stop there. it carried a grouch with each one of those reserves, and someti justly so, to every part of the country. The records of this war not dead yet, and they are dying slowly, and we still have calls we have to look after from the Civil War. If there should have to be any reduction in this clerical work, the first thing we woul would be to get rid of those outside assistants that we have borro We are confronted at the present time with a sudden comman sudden order to get to the work of the bonus business somehow somewhere. You can not take any sum of money and say that going to be distributed properly without experienced, reliable, careful men to lead the newcomers. If the bonus carries what have asked, or \$500,000, for clerical assistance, they will want reand will want them almost immediately.

You can not shift that many clerks out of the street and ask to go into the complicated business of Government bookket unless you take these men that you are appropriating for and them leaders. If you do that routine work on any other basis let the records get behindhand, the cases will go to the Court of Cl as claims against the Government for money. That would be

poorest economy that could possibly be practiced.

Mr. Kelley. Do you lend any clerks to other departments? Captain Williams. We have not loaned any, but we be clerks. You cut us down 47 per cent.

Imi COONTZ. We could not take anything of there.

. E LEY. Admiral, you went into this pr y could make y reductions in the f



. . .

Admiral Coontz. Yes, sir; and it was impossible to make a reducn. Last year in the other departments you took off 20 per cent, d this year we hoped to make a reduction of 5 per cent, but we uld not do that in the Bureau of Navigation.

Mr. Kelley. You have met the State demands already, have you

Captain WILLIAMS. We used extra clerks for that.

Mr. Kelley. But they are finished?

Captain WILLIAMS. Yes, sir; they were finished in record time is bonus business is confronting us, and, while it will carry its n appropriation, we will have to mix in new clerks and keep the lones in order to keep the work going. Then, there are the allowces owing to these Naval Reserve people, and I do not know how my months behind we are on that. That is partly due to the lack clerks in the Bureau of Navigation. When you discharge men er a war, their records remain active for some years.

Mr. Kelley. This is quite a while after the war. The war has been

er for five years now.

Captain WILLIAMS. But the number of active records is still very eat. A man's record never becomes absolutely dead as long as he ves relatives.

Mr. Kelley. Do you answer all of your letters?

Captain WILLIAMS. We try to, but we do not have much luck. We swer letters to you gentlemen through inefficient clerks sometimes, d sometimes the answer, instead of being civil, is pretty curt, is not?

Mr. Kelley. No: I have always had nice letters from your bureau. Captain Williams. You cut us so hard before that there is not ich left to cut.

Mr. Kelley. What is the average pay of these clerks?

Captain WILLIAMS. About \$1,200.

Mr. Kelley. Have you figured the bonus of \$240 in this? Captain Williams. No, sir.

TUESDAY, MARCH 21, 1922.

RECREATION FOR ENLISTED MEN.

ATEMENTS OF COMMANDER CHARLES R. TRAIN, IN CHARGE OF SIXTH DIVISION, BUREAU OF NAVIGATION, AND LIEUT. COMMANDER R. R. M. EMMET.

Mr. Kelley. This year you had \$800,000. What is your estimate next year?

Commander Train. \$455,000 on 65,000 men.

Mr. Kelley. That is just the proportion of what you had? Commander Train. The Budget cut our request of \$800,000 to 30,000, and \$700,000 for 100,000 men, we took naturally the athematical reduction.

Mr. Kelley. What would be the amount if you based your prortion on \$800,000?

Commander Train. Roughly, \$400,000.

Mr. Kelley. That is, if you had \$800,000 for 100,000 men would have to have how much for 65,000 men?

Commander Train. \$520,000.

Mr. Kelley. What was the total fund available for this pur last vear!

Commander Train. We had \$800,000.

SHIFS STORES PROFITS.

Mr. Kelley. Then, you had some other sources of income?

Commander Train. We had the source from the ships's profits, and this year, so far, it has reached \$60,000. That is a pa transaction between the Bureau of Supplies and Accounts and Bureau of Navigation. The ships pay for the moving pictures fr their ship's stores profit, certain ships do, and we are credited that amount by the Bureau of Supplies and Accounts, and fr those funds we buy other motion pictures.

Mr. Kelley. What was the amount secured from the profits in the stores! This is 1921 and I suppose you have complete figure

for that year!

Commander Train. It was in round numbers \$70,000—seven · odd thousand dollars.

Mr. Kelley. Were there any other sources besides that fr

which you obtained funds?

Commander Train. Yes, sir; we have had, as you know, fun turned over by certain welfare societies, which have not yet be expended. We have about \$35,000 left in that fund.

Mr. Kelley. Do you remember how much you used out of the

fund last year?

Commander Train. I can not tell you; not more than \$10,000 **\$**12,000.

Mr. Kelley. Would that represent all that you had with t

\$800,000 appropriation?
Commander Train. The American Library Association of a lit less than \$5,000, and the Y. M. C. A. additional of \$10,000, wh was given for certain educational work.

Mr. French. The Y. M. C. A. is in addition to the welfare so

ties ?

Commander Train. Yes, sir.

Mr. French. How much is that?

Commander Train. About \$10,000.

Mr. Kelley. Is that all?

Commander Train. I think that is about all, sir.

Commander Емметт. And \$65,000, Supplies and Ассон That is to be expended for supplies and accounts and nothing electrical accounts. Mr. Kelley. But it would save your obligating this fund for t

purpose if you did not have it?

mander Emmett. Yes, sir. LEY. So it all comes together. That makes for I 4.3UU t

Train. Roughly, I would say that a correct. . How will that compare with y

ex penditures

Commander Train. We do not know what we will get from and A. to begin with. They gave us a percentage of their approiation. We figured out \$65,000 was not the correct percentage sed on the records in the past, but it was not disputed in the ireau of Navigation.

Mr. Kelley. It is my recollection that during the war these

ips' profits dropped off almost entirely?

Commander EMMETT. The ships' profits increased during the ar on account of the transports taking the soldiers over and a eat many ships made a lot of profit. Since the war the profits ve dropped off.

Mr. Kelley. Do you know what the balance is in the Treasury

the credit of this fund?

Commander Train. No, sir; it varies from month to month.

Mr. Kelley. How much did you have in the fund on the 1st of

Commander Train. I think we have about \$60,000 now to our

Commander Emmett. We got a credit of \$65,000 on the 1st of last ly, which we have used to purchase athletic material from time time to make up for the material that we send out to the ships.

Mr. Kelley. Was the \$65,000 allotted to you by the Secretary? Commander Emmerr. It was allowed us by Supplies and Accounts lieu of their having to pay the ship allotments. A destroyer used get \$200 a year.

Mr. Kelley. Let us keep to the financial end. Let us take up the

rent year. You have an appropriation of \$800,000? Commander EMMETT. Yes, sir.

Mr. Kelley. How much did you estimate you would spend from · ship's stores this year?

Commander Train. The ship's stores does not come out of that.

Mr. Kelley. It is additional? Commander Train. Yes, sir.

Mr. Kelley. How much will that be?

Commander Train. I should say, roughly, \$75,000.

Mr. Kelley. You will have some welfare money this year?

Commander Train. Yes, sir.

Mr. Kelley. How much have you spent from that fund this year? Commander Train. About \$16,000.

Mr. Kelley. How much will you spend during the balance of the ar out of the welfare fund?

Commander Train. We will spend, I should say, \$10,000.

Mr. Kelley. \$26,000 altogether?

ommander Train. That is the welfare fund only.

Mr. Kelley. Will you have the American Library Association 1d this year!

Commander Train. Yes, sir.

Mr. Kelley. How much (

Commander Train. We will spend \$3,400—all of it. The library **1**d, instead of \$3,400, will be \$5,000.

Mr. Kelley. And the Supplies and Accounts, \$65,000, the same before !

Commander Train. Yes, sir: that is an estimate.

Mr. Kelley. They gave you money last year and probably give you the same this year?
Commander TRAIN. Yes, sir.

Commander EMMLTT. They say that they will give us a percer of the Supplies and Accounts maintenance. If maintenance is ha will get \$32,000, and if it is one-third we will get one-third of \$65

Mr. Kelley. That would be \$977,300; that is, for 1922, the rent year. This coming year, how much do you expect to get: the stores?

Commander EMMETT. About \$75.000.

Mr. KELLEY. Have you not quite a balance to your credit in

Commander Emmett. No, sir; we simply get the credit.

Mr. Kelley. The information which came to us under dat November 9, 1921, was that there was a Treasury balance w ships' stores profits of \$328,985.54.

Commander Train. But we only get the exact amount that

ships pay for the pictures out of the ships' stores profit.

Mr. Kelley. Does this fund pile up in the Treasury?

Commander Train. We only get a small portion of the \$360. Mr. Kelley. Where does the rest go!

Commander Train. I do not know where it goes. Supplies Accounts take charge of the balance. Our small amount is st

entirely on motion pictures.

Commander EMMETT. For instance, the Pennsylvania has a th sand men on board and they take our motion pictures every mon They pay us 30 cents per man or 1 cent a day. That would g \$300. That \$300 goes to the paymaster to be charged out to credit of the Bureau of Navigation and in turn goes to the Bun of Supplies and Accounts. They simply transfer that from Pennsylvania to the Bureau of Navigation, and, of course, we informed of the transaction. It is reported in a lump and in t we usually allot that to the motion-picture exchange to meet the current bills.

Mr. Kelley. You do not treat the profits from each ship a separate proposition; it all goes into one fund, and then you ch

against that for your needs?

Commander EMMETT. We have possibly 100 or 75 ships to what the motion pictures are furnished, and we get the credit from the ships through the Bureau of Navigation. We, in turn, allot the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships through the ships to what the ships through the ships to what the ships through the ships to what the ships through the ships to what the ships through the ships through the ships to what the ships through the ship money to the motion-picture exchange for services. They red our allotment by the amount we expect to receive from the sh stores profit.

Mr. Kelley. Just now let us consider only the financial side. I understand, you get from this fund something like \$100,0001 Commander EMMETT. I think it would be nearer \$75,000 will

Navy of 65,000 men.

Mr. Kelley. Call it \$75,000. How much will you get from **welfare** societies?

Commander Emmerr. I do not know that we will get anyth it are i

vve ll have a balance.



Commander Train. A balance on the 1st of July of about \$25,000. Mr. Kelley. You can use that all of next year? Commander Train. Yes, sir.

Mr. Kelley. Will you get anything from the Library Association? Commander Train. No, sir.

Mr. Kelley. Or from the Y. M. C. A.?

Commander Train. No, sir.

Mr. Kelley. From Supplies and Accounts?

Commander Train. We will get a percentage. Whether the Y. M. C. A. or the American Library Association will give us anything do not know.

Mr. Kelley. That is problematical?
Commander Train. Always.
Mr. Kelley. They have for the last two or three years and they nay again?

Commander Train. Yes, sir.

Mr. Kelley. That would give you \$660,000 for the coming year? Commander Train. Yes, sir.

Mr. Kelley. And you figure that will be about what you have een getting.

Commander Train. Yes, sir.

Mr. Kelley. That will be 65 per cent, anyway, of the amount ou had last year?

Commander TRAIN Yes, sir.

bulation of estimates, morale division, Burcau of Navigation, 1923, based on a total budget of \$455,000 for 65,000 enlisted men.

		Religion	
▼v clubs	11, 375, 00	Contingent	1, 706. 25
h letics	17,062.50	Allotments	244, 619. 75
ide books	8,531,25	Education	29, 575. 00
blications	6,256.25	Libraries	22, 750.00
cial hygiene			
ministration	13, 650, 00	Total	455, 000. 00

Tuesday, March 21, 1922.

GUNNERY AND ENGINEERING EXERCISES.

STATEMENT OF CAPT. WILLIAM C. WATTS.

Captain Watts. The estimate was originally \$95,000 for this year, compared to an appropriation of \$100,000 for last year. Our propriation is so little affected by the actual size of the enlisted rength of the Navy that I have been unable to find any means by aich I could suggest any reduction beyond the reduction already **a**de to \$95,000.

Mr. Kelley. This is for gunnery prizes, trophies, and badges in der to improve the interest of the men in efficient shooting and all at sort of thing!

Captain Watts. Yes, sir. About one-half of the appropriation paid for the first paragraph, "Prizes, trophies, and badges, etc." Mr. Kelley. How much is that?

Captain WATTS. Approximately \$46,000, and that, of course is unaffected by anything except the number of combatant ships in an operative status.

Mr. Kelley. For the purpose of printing, recording, classifying, compiling, and publishing the rules and results, what do you esti-

mate?

Captain Watts. About \$30,000.

Mr. Kelley. What sort of printing is this?

Captain Watts. That covers the preparation of the orders for gunnery exercises, rules for engineering performances, and the annual reports of the competitions. That figure is more or less unalterable because that work must be done if the competitions go on. Whether a lesser number of men are employed, or not, practically the same number of ships of the combatant class, except battleships, would be continued under the operating force plan for the 65,000 strength Navy. There is practically no change among the ships for which prize money is paid, except in the battleship class.

Mr. Kelley. For the establishment and maintenance of shooting galleries, target houses, targets, and ranges how much do you

estimate !

Captain Watts. We have been obliged to reduce that to \$15.000. Our usual expenditure has been about \$25,000. We already have had to close several ranges and to so greatly reduce the allotment for the upkeep of others that we are just about on the ragged edge of discontinuance now.

Mr. Kelley. What ranges have you closed?

Captain WATTS. We discontinued the allotments for the ranges at Philadelphia and Great Lakes, and have entirely closed the right range at Maguinao, near Olongapo, P. I.

Mr. Kelley. What was the first one you mentioned?

Captain Watts. Philadelphia. There is personnel at all of the stations that we would like to have the opportunity to continue firing.

Mr. Kelley. You will have the men on shipboard where the

can have better training?

Captain Warrs. No, sir; we can not give them complete small arms training on the ships.

Mr. KELLEY. You can at Guantanamo?

Captain Watts. Yes, sir.

Mr. Kelley. You have a good range down at Hampton Roads!

Captain Watts. No. sir.

Mr. Kelley. I thought there was one a few miles away from Hampton Roads.

Captain Warrs. We had one there during the war, but that be

been discontinued.

Mr. Kelley. You have discontinued the range at Virginia Beach! Captain Watts. Yes, sir.

Mr. KELLEY. You have turned that back to Virginia?

Captain Watts. Yes, sir.

Mr. Kelley. For hiring established ranges and for transporting equipment to and from ranges, you estimate what?

Captain Watts. We estimate \$4,000 for that.

Mr. Kelley. That makes up the \$95,000?

Captain Watts. Yes, sir.

Mr. Kelley. That is all that the Bureau of the Budget estimated

or this purpose?

Captain Watts. Yes, sir. There is an additional clause requested or inclusion there to meet an immediate and unforeseen situation, nd which will go far to make up any savings that may result from lesser number of battleships competing.
Mr. Kelley. "Including the services of one technical photo-

rapher." Where is he employed?

Captain Watts. In the laboratory. He is needed for the photoraphic work in plotting the results of target practice. Many of our cores are based upon photographic records.

Mr. Kelley. He should be in the civilian force of the department.

Captain WATTS. Yes, sir.

Mr. Kelley. And not under this item.

Captain Watts. That is the way it was provided for. There is me other office on a similar basis.

Mr. Kelley. We can put it in the civilian part of the bill.

Captain Watts. One other office has a similar situation, and it was or that reason that the Budget Officer directed that I include it this This is a technical man.

Mr. Kelley. You have somebody doing that work now?

Captain Warrs. No, sir; not at present.

Mr. Kelley. This is a new position.

Captain Watts. No, sir; the same services have been obtained at tervals in the past. We have accomplished it by either farming It the work or by having it done in offices that have similar emloyees. Some of the time it was being done at the navy yard, and times it was being done by enlisted men.

Mr. Kelley. You want to create this one position? Captain Watts. Yes, sir; it is an absolute continuing necessity. he work is now of a continuous character.

Mr. Kelley. We will put it over in the civilian list. I suppose all

notographers are all more or less specialists?

Captain Watts. Yes, sir. This is different only to the extent that has to be trained in making and analyzing pictures of the splashes shots.

Mr. Kelley. This photographer has special training in the making that sort of pictures?

Captain Watts. Yes, sir; in the making and analysis of target

Mr. Kelley. You can carry this work on without creating this

Decial place, but you would rather have it done this way?

Captain Watts. We can not do it without some expedient, which Des not now suggest itself. There is nobody doing the work now, and we are in a very desperate situation. The Secretary is aware of te need for our relief, but no means have been found to afford it yet.

THURSDAY, MARCH 16, 1922.

BUREAU OF YARDS AND DOCKS.

STATEMENTS OF REAR ADMIRAL L. E. GREGORY, CHIEF; LIE TENANT COMMANDER WARREN, LIEUTENANT COMMANDER ROUZER, AND MR. SMITH.

NAVY YARD, PORTSMOUTH, N. H.

Mr. Kelley. Gentlemen, we have with us this morning. Admir Gregory. Chief of the Bureau of Yards and Docks, and his assistant

CONSTRUCTION OF BRIDGE.

On page 113 of this draft of the bill is the first item, "Navy yell Portsmouth, New Hampshire: To aid in construction of bridge onnecting city of Portsmouth, New Hampshire, with navy yards at Kittery, Me., to complete, \$250,000." Please tell us the statu

of that bridge.

Admiral Gregory. That bridge is being built in conjunction with the States of Maine and New Hampshire, those two States with the United States Government, each paving one-third of the The foundations of this bridge are now completed and work is now underway on the superstructure. The amounts apprepriated to date will probably be insufficient to meet the obligation that will be incurred up to the end of the current fiscal year. It is expected that the entire bridge structure will be completed by December, next. It is therefore proposed to put in the remainder of the balance required to complete, the entire amount of the apprepriation, \$250,000.

Mr. Kelley. Did we agree to pay one-third, not to exceed a ca-

tain sum?

Admiral Gregory. That, I think, is the understanding.

COST OF BRIDGE.

Mr. Kelley. How much was the cost of the bridge? In the appropriation bill for the fiscal year 1921 there appears this item:

To aid in construction of bridge connecting city of Portsmouth, N. H., with my yard at Kittery, Me., \$500,000, of which \$250,000 is hereby appropriated: Provide, That an equal amount shall be expended concurrently for the same purpose severally by the States of Maine and New Hampshire, the location to be approved by the Sereatry of the Navy for convenient access to the Portsmouth Navy Yard.

We agreed to put up \$500,000, I see.

Admiral GREGORY. Yes, sir.

Mr. Kelley. We have already appropriated \$250,000?

Admiral GREGORY. Yes, sir.

Mr. Kelley. It will all be needed this coming year? Admiral Gregory. It will all be needed by the end of the calendar

year.

. And each of the States 1 -- continued also ! . Yes. sir. I understa appropria

total amount of the ee bodies.

u c

dmiral Gregory. As nearly as I can figure, they have now oblid everything except a few thousand dollars, but there will, pers, be some contingencies that always have to be met in such a cture as that, so I do not think it is wise to reduce that any, and my money is left over at the end, the money will be turned back. Relley. There may be a few thousand dollars? dmiral Gregory. Yes, sir; I do not think it is wise to make any action.

NAVY YARD, NEW YORK, N. Y.

SPRINKLER SYSTEM.

r. Kelley. The next item is, "Navy yard, New York, N. Y.," you want a sprinkler system in mold loft, \$18,000? Can not get along without any more improvements in the yards on the intic this year?

dmiral Gregory. It is probably true that almost nothing is

uded for the eastern yards this year.

r. Kelley. This is fire protection?

dmiral Gregory. Yes, sir; it is simply a question of whether it lvisable, in view of the fact that we have a vast amount of inflamble materials stored in the mold loft, to omit the sprinkler system; simply a protective measure.

r. Kelley. How long has the building stood there; is it a new or

building?

dmiral Gregory. This building was completed in 1919.

here are stored in the building also patterns and framing for s that have recently been built, and they have decided that ough they think it desirable to have the sprinkler system over entire mold loft, this covers only about one-half, that being the portion that they think is absolutely necessary.

r. Kelley. It has been used for a mold loft right along?

dmiral Gregory. I understand it has.

r. Kelley. This is fire protection and ought to take care of other

els that are stored there?

dmiral Gregory. They being of great value and stored in this e, it is considered proper to have fire protection.

NAVY YARD, PHILADELPHIA, PA.

DREDGING, ETC.

r. Kelley. The next item is, "Navy yard, Philadelphia, Pa.," lging, \$75,000. Where is that dredging?

dmiral Gregory. That, I understand, is routine, and usually has e done there from time to time in order to maintain the depth

is necessary to get the ships in and out.

r. Kelley. Is that dredging the Schuylkill River so as to get the back basin?

dmiral Gregory. Into the Schuylkill and into the reserve basin, entrance to the reserve basin.

r. Kelley. My recollection is that you get into the basin through Schuylkill River?

Admiral Gregory. Yes, sir. During the last two years t have not been sufficient available funds to keep that channel bot dredged down to the amount actually necessary.

Mr. Kelley. When was the last time we appropriated for dr

ing there?

Admiral Gregory. Year before last, June 4, 1920, \$100,000 appropriated for general dredging, however no dredging has done in the reserve basin since 1919.

Mr. Kelley. Is dredging always carried as a special appro-

tion for all the yards?

Admiral Gregory. I think in nearly all cases it is.

Mr. Kelley. Could you do this out of the lump sum? Admiral Gregory. It could be, if we had enough money, b is seldom permissible to do anything out of the lump sum for reason that it is too small with which to do it and you usually to to get a big sum of money, because it involves the working plant that is so expensive that you can not attempt any dred without spending money in much larger amounts than your lu sum appropriation will permit.

Mr. Kelley. Are you doing any dredging this year?

Admiral Gregory. There is no dredging that I know of b done at Philadelphia this year. This dredging is reported from yard at present to be necessary in order to use the reserve be The use of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before, because of the reserve basin may be even greater than before the we are tying up so many more ships.

Mr. Kelley. Is it the idea to enlarge the basin?

Admiral Gregory. No, sir; simply to provide against the which has been accumulating and which accumulates continually

PILE CAPS, WAYS NOS. 2 AND 3.

Mr. Kelley. "Pile caps, ways Nos. 2 and 3, \$125.000," w about that?

Admiral Gregory. Those ways are the ways on which are under construction two of the battle cruisers, upon which work been stopped.

Mr. Kelley. You will not need that?

Admiral GREGORY. The only point is whether those ways will a be required. They can not even go ahead and complete the ba cruisers unless we repair the ways.

Mr. Kelley. If needed, we can provide for them.

Admiral Gregory. Except you might need them in an emerger Mr. Kelley. You would not need them this year?

Admiral Gregory. This year, I would not think we would.

NAVY YARD, NORFOLK, VA.

TO CONTINUE WATER-FRONT IMPROVEMENTS.

LEY. The next item is "Navy yard, Norfolk, Va.: Was rovements, to continue, \$75,000." Is that to finish the fr (ony. That will not finish the e work, but it ace to stop. 1 quite an extens 1 should o bring that y

o a state of completion, but the money gave out at a point where hey did not have a good stopping place. This is simply to piece out small portion and then it will leave it so it can be protected.

Mr. Kelley. When we gave you \$250,000 last year we did not

rive quite enough?

Admiral Gregory. Not quite enough.

Mr. Kelley. This brings the improvement down to the slip?

Admiral Gregory. To the pier.

Mr. Kelley. This will complete and make effective what you have lone heretofore down there?

Admiral Gregory. That is the idea; yes, sir.

NAVY YARD, CHARLESTON, S. C.

TO CONTINUE DREDGING.

Mr. Kelley. The next item is "Navy yard, Charleston, S. C.,

lredging, to continue, \$36,000."

Admiral Gregory. That is a yard where dredging has to be done oractically every year if the intention is to keep the bottom down to such a level as to use the vard.

Mr. Kelley. In front of the dry dock, as I remember it?

Admiral Gregory. The dry dock and piers.

Mr. Kelley. You have to keep that dredged out?

Admiral Gregory. Yes, sir.

Mr. Kelley. This stuff comes down the Cooper River to right in ront of the dry dock?

Admiral Gregory. Yes, sir.

Mr. Kelley. You had submitted an estimate of \$40,000 less than ast year?

Colonel Roosevelt. Yes, sir. Admiral Gregory. Yes, sir.

NAVAL STATION, KEY WEST, FLA.

DEVELOPMENT AND COMPLETION OF SUBMARINE BASE.

Mr. Kelley. What about the situation at Key West? There as not been any estimate submitted, but I want to know about the ituation there!

Admiral Gregory. That work has been contracted for and it is xpected that it will be completed during the present calendar tear. They have been building a breakwater, and behind that reakwater a number of piers alongside of which they will have mple room for tying up quite a fleet of submarines. The former Thief of the Bureau of Yards and Docks, Admiral Parks, was down here on a tour recently and submitted a report on the conditions in which he finds that the work has been progressing fairly atisfactorily.

Mr. Kelley. What are they doing?

Admiral Gregory. At the present time they are putting riprap on he inside of the breakwater to protect it from the further wash of he sea.

Mr. Kelley. What is riprap?

Admiral Gregory. Broken stone; broken corral is in that case.

Mr. Kelley. The covering that they expected to use was no success?

Admiral GREGORY. They tried marl, in fact, that is what is go on at the present time, but it is felt that the marl is not good at a location, it did not meet the expected results and it was not quit good as the marl they had in other portions of Florida.

Mr. KELLEY. This will hold the improvement from washing b

so that we will not have to put in any more money?

Admiral Gregory. Yes, sir; it is hoped that it will not be necess to ask for any more money. The work is going ahead now and t report very good progress.

NAVAL STATION, GUANTANAMO, CUBA.

ADDITIONAL DISTILLING FACILITIES.

Mr. Kelley. Have you put in the additional distilling facilities Guantanamo?

Admiral Gregory. They have not been installed. They have working up the plans and specifications. An award has been made, but it is expected to be made at an early date.

NAVY YARD, MARE ISLAND, CALIF.

MAINTENANCE OF DIKES.

Mr. Kelley. The next item is "Navy yard, Mare Island, Cal We have some new estimates from the Bureau of the Budget ab Mare Island, amounting to \$2,650,000.

Colonel ROOSEVELT. It is the teredo, which has been destroy

the piles.

Mr. Kelley. Mr. Curry, a Member of the House from Califor is present, and I would be glad, and I think the committee would glad, to have Mr. Curry make a general statement with reference the situation at Mare Island.

THURSDAY, MARCH 16, 192

STATEMENTS OF HON. CHARLES F. CURRY, A REPRESENTIVE IN CONGRESS FROM THE STATE OF CALIFORN AND DR. J. J. HOGAN.

Mr. Curry. The Chief of the Bureau of Yards and Docks explain this situation from the technical standpoint much be than I can.

Mr. KELLEY. He will do that.

PRESENT CONDITION OF DIKES.

Mr. Ct . You ll ret er that a yethe subce maittee: It that if proper sh by probably



an it would if they were put in shape then. In your appropriation year ago for the maintenance of yards and docks you intended to clude enough money to take care of this proposition.

Mr. Kelley. In the lump sum?

Mr. Curry. Yes, and Admiral Parks, at my request, came before our committee a second time and told you he would do this, as you ill remember. After that Admiral Parks was taken sick and the ork was not done. One thousand feet or more of the dike has gone at and it will all go unless it is replaced in the near future. in at all falling in that part of California. The result was that the by and the channel, as well as the Napa River, instead of being fresh ater was salt water, and the teredo, which can not live in fresh ater, went up through the channel and destroyed the piling. It is ot likely there will be another four dry years in California for the ext 50 years and maybe never. The teredo can not live in fresh ater; it lives in salt water. This dike piling was put in 19 years go and it was expected to last about 15 years, but notwithstanding ie teredo it lasted two years longer than it was originally estimated last by the Bureau of Yards and Docks, and it would probably ave lasted six or seven years longer if the teredo had not gotten in here. It will cost two million and a quarter dollars to replace these kes and put them in shape so as to make them absolutely safe, ad unless they are replaced about \$40,000,000 worth of Federal juipment will be in jeopardy.

The appropriation has the approval of the commandant at the ard, Admiral McKean, of Captain Cox, the chief engineer of the velfth naval district, of the Bureau of Yards and Docks, the Secretry of the Navy, the Assistant Secretary of the Navy, and the

udget Bureau.

I expected that this item would be included in the original budget, and it was recommended by the Bureau of Yards and Docks, but it so much as this. However, the Budget Bureau cut the approximation down to such a low point that it might as well not be approximated, because it would be like throwing money away.

I am sorry the condition is as it is, but it is exactly as I told you would be a year ago unless these dikes were repaired, and if they e not repaired now it will probably cost twice as much to replace

ıem.

PINOLE SHOALS-MARE ISLAND CHANNEL.

We have a 35-foot project below low water, being cared for by the Army Engineers, through the Pinole Shoals, the Mare Island hannel, and the turning basin.

Mr. Kelley. You mean they are dredging a channel up to Mare

sland which will have 35 feet of water?

Mr. Curry. It was 35 feet before these dikes went out, as well as rough the Pinole Shoals. While these dikes were in, the depth was eing maintained, and it had really gone to a 36-foot depth below we water through Pinole Shoals. The Chief of Engineers told me the information he had from the coast showed that they could maintain the Pinole Shoals depth without using a dredger over two teeks in a year.

Mr. Kelley. Is that the difficult point in this channel, from Sun Francisco up to the yard and through the Pinole Shoals?

Mr. Curry. The difficult points are the Pinole Shoals and the

channel.

Mr. Kelley. How deep is the channel?

Mr. Curry. It was 35 feet before the dike went out. Of course. there is another project for using the point of the island, at which place there is a minimum depth of 50 feet, but if these dikes are maintained two weeks of work a year with a dredger will maintain a 35-foot depth all the way up, but if these dikes are not replaced soon the channel will shoal up materially. In some points it has shoaled up to 26 feet now.

Mr. Kelley. These dikes prevent the silt from coming down from

what place?

Mr. Curry. Here is a photograph of the dikes and these are the dikes [indicating]. There is a 6-foot tide and the water runs back and forth. The flow of the river and the action of the tide fills back of these dikes.

Mr. Kelley. Which way does the current flow?

Mr. Curry. It flows this way and then comes back in through here [indicating]. The mud back there has resulted in making a great deal of land.

Mr. Kelley. With these dikes being out the mud fills in the channel?

Mr. Curry. Yes: it starts in from here [indicating].

Mr. Kelley. Is this the way down to San Francisco [indicating]! Mr. Curry. No; this is the way down to San Francisco Boy [indicating].

Mr. Kelley. How do you mean?

Mr. Curry. Down this way [indicating], and here is Mare Island and Napa River [indicating].

Mr. Kelley. Where does the mud come from ! Mr. Curry. It is washed back from the hills.

Mr. Kelley. It does not come from any stream but it comes down

with the rains from the hills into this place here [indicating]?

Mr. Curry. Yes, sir; it comes down here [indicating] and instead of going on out, when the tide comes back it is put back in here indicating].

Mr. Kelley. By reason of the return of the tide? Mr. Curry. Yes, sir.

Mr. Kelley. You say a 35-foot channel can be maintained from San Francisco all the way up to the yard by two weeks' of dredging a year?

Mr. Curry. Yes, sir.

Mr. Kelley. Who told you that? Mr. Curry. The Chief of Engineers of the Army, or the Assistant Chief, Colonel Taylor.

Mr. Kelley. How many feet of dikes are there, or perhaps the engineer can tell us?

Mr. Curry. Admiral, how many miles of dikes would you sayabout 3 miles?

15.0

œd

Admiral Gregory. One dike is nearly 3 miles long.

Mr. DAVIS. Where is Mare Island as shown on this photograph? Mr. Curry. Right in here [indicating].

Mr. Byrnes. Where is the yard?

Mr. Curry. Right there [indicating]. Mr. Kelley. And this is-

Mr. Curry (interposing). Napa River and the channel.

Mr. Byrnes. San Francisco is up this way? Mr. Curry. Yes, sir.

Mr. Byrnes. When the tide comes in and then goes out, your heory is that it washes mud in there, or does that mud come from

in in here [indicating]?

Admiral Gregory. The mud is carried in suspension by storms hich come down this stream and down this one [indicating] and it is eposited; as soon as the tide slackens and the water stands, then nis mud settles; it will not settle as long as it is in motion, but it will ottle anywhere it happens to be at the time the tide is on the turn. Then you get slack water, then is when you get the deposition of this aterial in suspension.

NECESSITY OF DIKES FOR MAINTENANCE OF CHANNEL.

Mr. Byrnes. And your idea is that by maintaining this dike the rud is brought down in here [indicating]?

Admiral Gregory. Yes; for the reason that the current is directed y means of this dike so that the water comes in and out here ndicating], and this is dead water; therefore, where the water is ead the mud settles, and it will settle here, too [indicating], just as Don as you have a turn in the tide, but just as soon as the tide ranges and it begins to flow again that material, being freshly deosited, will be carried out, because of the current in the channel.

Mr. Kelley. Where are the navy yard approaches, the piers? Admiral Gregory. They are right on the northerly side. plan of the yard. You should really orient this plan and the photoraph together in order to get a good idea of it. That is the way it bllows the channel, and here is the Mare Island water front.

Mr. Kelley. You come up from San Francisco this way [indicat-

ig] ?

Admiral Gregory. Yes.

Mr. Kelley. And you turn up in there to go to the navy yard? Admiral Gregory. Yes, sir.

Mr. Kelley. What is this stream?

Admiral Gregory. That is the Napa River.

Mr. Kelley. And the navy yard is on this tongue of land here ndicating] {

Admiral Gregory. Yes, sir.

Mr. Kelley. But the entrances are all on that side [indicating]?

Admiral Gregory. Yes, sir.

Mr. Kelley. And just across the river is Vallejo, the residence art of that establishment!

Admiral Gregory. Yes, sir.

Mr. Davis. What is the width of the land there?

Admiral Gregory. The land along in here [indicating] is nearly a aile in width.

Mr. Curry. There are 1.400 acres there and there is a lot in her that belongs to the Government, land that is being made.

Mr. Kelley. Where is this dike on this map?

Admiral Gregory. Here is this long dike, that is, the long dike that is shown on this drawing 2, and that is the one that is giving away by reason of the teredo eating into the timber and weakening it and at the same time the accumulation of material behind this has been so great in the past that there is considerable pressure on the rear side of the timber, so that with the weakening and increase in load and pressure on the back a lot of that has gone out.

AMOUNT OF DIKES TO BE REPLACED.

Mr. Kelley. Will it be necessary to replace the entire dike?
Admiral Gregory. Not if we can start repairs immediately: the whole proposition is to start repairs before the entire damage is done.

Mr. Kelley. How much of it is to be replaced with this \$2,250.000! Admiral Gregory. There will have to be nearly 1,000 feet of timber work rebuilt. The exact amount can only be ascertained as the work of repairs proceeds.

Mr. Kelley. You intend to use timber?

Admiral Gregory. Creosoted timber; but the entire length will have to be protected with riprap, such as we described for the Key West condition, in order to keep that timber from going out. So we propose to keep as much as now remains intact by putting riprap of the face of it so it will still be maintained.

Mr. Kelley. Could you make all of that improvement in one year! Admiral Gregory. It could be done and we would do the most of it in one year, but it ought to be done under one contract in order to step in just as soon as we find a place threatens to go out; we would want to be in a position to step right in and save anything that started to go out. We would start with the places that have already gone out and rebuild them and at the same time work on the places that are threatening to go out. The proposition is to protect the whole of each one of those dikes all the way through.

Mr. Curry. We are not asking for any development of the Man Island Navy Yard at this time; we are simply asking that what is there be taken care of, and if the \$300,000 that I suggested, and we estimated by the engineer officer out there, had been used last year it would not be necessary to use so much money now. I told you then that if the money was not used at that time it would cost that times as much this year, and if the money is not appropriated this year it will be twice as much next year.

AMOUNT TO BE EXPENDED FOR REPLACEMENT THIS YEAR.

Mr. KELLEY. How much do you estimate you would expend this

coming year?

Admiral Gregory. We would probably have to spend at less half of the total cost which we now estimate should be appropriated, so we are recommending in this appropriation that one half be immediately available, but permitting a contract to be made for

entire amount, meeting the other half by an appropriation to made next year.

Mr. Kelley. We would not want to appropriate more than you

uld normally expend during the year.

Admiral Gregory. I think we would actually expend that much. Mr. Kelley. I suppose a limit of cost might be fixed and then propriate what you would need?

Admiral GREGORY. Yes.

Mr. French. Would that take care of awarding a contract for the cole amount?

Admiral Gregory. Yes. I have some recent photographs which ow the distressing condition there, and if you will glance over them u will find there is something there which we can not very well

Mr. Kelley. We could put in the bill a limit of cost of \$2,450,000, e-half of that to be immediately available, and appropriate the lance when it was needed.

NECESSITY FOR IMMEDIATE REPLACEMENT OF DIKES.

Colonel ROOSEVELT. Admiral, am I not correct in stating that if do not take care of this now there is a very grave chance of the tole business going out and rendering the yard useless until it is

Admiral Gregory. That is one of the big probabilities; I would t say it is a possibility, but it is more than a probability, and it is so probable that result will be accomplished within about two years. Mr. French. Then there is another thing I want clear. It would t be, assuming that should occur, a question of building dikes in other year or two or three years, but a question of dredging that w could be avoided provided the dikes are now built.

Admiral Gregory. Yes, sir.

Mr. French. Is that the way you want it understood? Admiral Gregory. Not only dredging but also the cost of rebuildthe dikes. If we can step in now we will have to rebuild those ly where they have gone out, as you have noticed from some of ese photographs, and the remainder we will preserve intact by ason of the riprap which we will place in front of them, but if we it until it is all carried out then we will have to rebuild everying; we will have to redredge everything, and we will also, in the antime, have crippled the navy yard, because the deeper-draft ips will not be able to go up there, and also the commercial interests, nich have reason for ships entering that channel, will probably be ocked.

Mr. French. Then where you are riprapping, supposing the approation should be made, will that save, opposite the parts of the ter where you are riprapping, the question of dredging?
Admiral Gregory. That will save the dredging and also save the

ouilding of your dike.

Mr. Byrnes. Where is your submarine base?

Admiral Gregory. We have only a minor submarine base there, t there is a submarine base in southern California.

Mr. French. San Diego, I believe.

Admiral Gregory. No: San Pedro, where a portion of a municipal

pier is used under permit from the city.

Mr. Curry. If the committee should authorize the full amount and make one-half immediately available, would that be satisfactor at this time?

Admiral Gregory. Yes: that is precisely what we have recom-

mended.

REBUILDING OF WHARVES AND WALLS.

Mr. Kelley. Why do you divide this into two parts, maintenance of dikes and dredging and rebuilding wharves and quay walls?
Admiral Gregory. I found that division in the bill and I do not

know just why it was made, except that it is special work.

Mr. Kelley. So we could strike out \$150,000 if we put in far maintenance of dikes and dredging whatever sum we see fit, and that will cover the whole thing, will it?

Admiral Gregory. No, sir; you will also have to include an item

for rebuilding wharves and quay walls.

Mr. Kelley. Maintenance of dikes and dredging and rebuilding wharves and quay walls?

Mr. Curry. If you put that in the item it will cover it.

Mr. French. If the item of \$200,000 should be increased by whatever amount we propose for the work you recommend, that will take care of the situation?

Colonel ROOSEVELT. Provided it is enumerated in that way. Mr. French. What I mean is, do we need any new language! Colonel ROOSEVELT. I should not think so.

TOTAL APPROPRIATION MARE ISLAND NAVY YARD.

Mr. Kelley. Let us get this straight. This bill carries \$150,000 for one item and \$200,000 for another, making \$350,000. The supplemental estimate reads like this:

Supplemental estimate of appropriation for the Navy Department for the field year ending June 30, 1923, for the Naval Establishment, public works, Bureau & Yards and Docks: Navy Yard, Mare Island, Calif., \$2,450,000.

Then there are some other items, and below it says:

These items are in addition to the amounts included in the Budget.

So that would be \$350,000 added to \$2,450,000, or \$2,800,00 Is that your understanding of the need of this place or is this supple mental estimate in lieu of the other?

Admiral Gregory. This is in lieu of the other.

Mr. Curry. That supplemental estimate, Admiral, was in addtion to the other, as you will find if you will read the recommedations to the Budget Bureau and your recommendations to the Budget Bureau.

Admiral Gregory. The idea is that in the bill as it is prepare to date you have two separate items. In view of the fact that the work is almost identical in nature in the two items we propose rewording in which the total amount for both the dikes and the wharves will be covered by one item.

Mr. Kelley. Is it \$2,450,000 or \$2,800,000?

dmiral Gregory. \$2,800,000 would be the total in lieu of the as that are now in the bill.

Ir. Kelley. You stated a moment ago that this was not in ition but in lieu of the other.

dmiral Gregory. It is in addition.

Ir. Kelley. If the \$2,450,000 asked for in the supplemental mate is in lieu of what is in the bill, then the amount asked for is \$50,000; if it is in addition to what is in the bill, then the sum 2,800,000, and we want to be clear which it is.

dmiral Gregory. The total asked for is \$2,800,000, but you do need it all appropriated for this year; approximately one-half to available this year would be all that you could expend, in all bability, during this year.

1r. Kelley. How much of the \$2,800,000 estimate will be needed

the rebuilding of these dikes?

Admiral Gregory. The dikes will take about \$1,300,000.

Ir. Kelley. And what do you want to do with the rest of it? Idmiral Gregory. The rest of it represents the rebuilding of the arves and quay walls. That will be \$1,500,000.

Ir. Kelley. Where are those wharves and quay walls? Admiral Gregory. They are along the northerly water front of the re Island yard proper.

DESTRUCTION OF WHARVES AND QUAY WALLS BY TEREDO.

Ir. Kelley. Are they in danger of being destroyed by this same

ng s

Admiral Gregory. Absolutely; they are now in such a weakened dition that the commandant has absolutely prohibited all use of a y considerable proportion of the yard water front; it has been ated because it is known to be on the eve of going in.

Ir. Kelley. What is this teredo; is it an animal or a vegetable? Admiral Gregory. It is a little marine animal, a bivalve, which its in its infancy just like a grain of sand; it adheres to the edge the pile and begins boring into the pile, and when it begins to eat lso begins to grow, and it continues in growth, so that I have seen eredo as long as 4 feet and as thick through as my thumb.

REASON FOR INCREASED ESTIMATES.

Ir. Kelley. Who made these estimates?

Admiral Gregory. They were prepared at the yard and checked r at the Bureau of Yards and Docks.

Ir. Kelley. This situation is not anything new to you, of course, ause we heard about it last year. How is it you did not include

roper amount for this work in the original estimates?

idmiral Gregory. I think there is no reason for criticism, because fact is that the enormity of this question has not been realized il within the last few months, and at the time the estimates were mitted for the making up of the Budget last fall it was not known to the condition was so serious; it was recognized, of course, and to is why the estimate appears in the bill, but the enormity of it only begun to be realized within the last few months. When I exint office I found that papers were accumulating which indi-

cated a very serious need and I appointed an informal board, in the bureau, of engineers, most of whom had had duty at that station and were familiar with the conditions, and a report was finally submitted to me, which has been examined and found to represent condition so serious in nature that it was forwarded to the Secretary of the Navy, and both the Secretary and the Assistant Secretary realized that conditions were such that they could not be suppressed that the conditions should be made known to you gentlemen and an effort made to provide for the upkeep of those structures. That briefly, is the reason for making the amount as it now stands.

DEPTH OF CHANNEL AFTER IMPROVEMENTS.

Mr. Kelley. What is your information about this channel from San Francisco up to the yard when these necessary improvement are made?

Admiral Gregory. All the information we have is to the effect that these dikes have been very successful in maintaining the channel to the desired depth, and they have been so successful that I do me feel it wise or proper to make any experimentation by deviating from those lines.

Mr. Kelley. If we make this improvement then we have insured a channel from San Francisco to the Mare Island yard at low water of 35 feet?

Admiral Gregory. Not at low water; no sir; at mean high water Mr. Kelley. What do you say about this channel, Mr. Curry!

ARMY APPROPRIATION FOR MAINTENANCE OF CHANNELS.

Doctor Hogan. The project of the Army is 35 feet, if the appropriation is made to keep it at 35 feet. That is the understanding of the Army engineers—at low water.

Mr. Kelley. Has that ever been done so far?

Doctor Hogan. We have places in the channel where it is.

Mr. Kelley. I am talking about the whole business from Se Francisco up to the yard. Is there money appropriated which keep the channel at 35 feet if we make this improvement?

Doctor Hogan. Yes, sir; that is in the Army bill.

Mr. Kelley. Is that your understanding? Admiral Gregory. That is the way I understand it; yes, sir.

Mr. Kelley. And we get away from all questions of this yard be insufficient for the large ships if this project is carried out and if the Army carries out its project?

Mr. Curry. And also in such dredging as will be necessary from year to year, right in front of the yard, because that will have to done to get the proper depth to handle the ships.

Mr. Kelley. That is an annual charge, a modest charge, of \$50,00

or \$75,000 !

Mr. Curry. Yes, sir.

Mr. Byrnes. The Army bill does not specify this particular project, to make this project a certain depth; it does not spec any particular project; it is in a lump sum?

Mr. CURRY. No: for Pinole Shoal, Mare Island Strait, and

turning basin, \$100,000.

Mr. Kelley. This covers the entire channel where there are any ficulties?

Mr. Curry. Yes, sir.

Mr. Kelley. We want to make that clear, that we are not throwing is money away.

Mr. Curry. I would not ask for it.

Mr. Kelley. I know you would not. We want to be sure that ere is cooperation with the other branch of the Government to ake this money effective?

Mr. Curry. That is what I had in mind; yes, sir; there is.
Mr. Kelley. There is no dispute about that at all, Admiral?

Admiral Gregory. I know of none at all.

Mr. Kelley. You do not know of any, Colonel?

Colonel ROOSEVELT. No. I would like, Mr. Chairman, to go into is matter a little more thoroughly and be prepared to report at a ter date.

Mr. Kelley. I do not think that our committee wants to go before e House with an expenditure of \$2,400,000 with the uncertainty lich sometimes has surrounded these situations as to whether or not ter the appropriations were made you could get the ships there.

Colonel ROOSEVELT. I will tell you, as far as the general situation es, that I am absolutely willing to go strong on record that unless s expenditure is made the Mare Island yard will be rendered largely

eless, in all probablity.

Mr. Kelley. I want to go further than that. I want to be able say that if we make this expenditure to protect these dikes and its with the normal amount of dredging which naturally goes with project of this kind that there are projects under way under the isdiction of the Army.

Colonel Roosevelt. I would have to look that up.

Mr. Kelley. Making this channel 35 feet, so the yard can be used

· all the ships of the Navy, regardless of size.

Mr. OLIVER. Does not that condition obtain now? The work a have in contemplation that the War Department will do is gely for the maintenance of the channel?

Colonel Roosevelt. No; that condition does not obtain now.

Mr. OLIVER. To what extent does it not?

Colonel Roosevelt. I can not tell you offhand.

Mr. Kelley. This is quite a controverted subject, and unless you

ve looked into it quite a bit-

Colonel ROOSEVELT (interposing). That is why I did not want to ke a definite statement on the situation until to-morrow; but the t statement stands. If this improvement is not made, the Mare and yard will be largely rendered useless for the Government.

Ar. Kelley. Of course, Mr. Curry is very familiar with this situan, and I know that the information he gives is absolutely as accue as anybody can give, that the Army has the money and the plans all in process of being carried out to make this an effective channel the way from San Francisco to the Mare Island Yard at 35 feet water.

Ar. Curry. Not only that, but the Army has already provided h a channel. It has to be dredged every year to a certain extent—ink it has been \$100,000 a year. I think they can maintain it by

expenditure of about \$75,000.

Mr. Kelley. Until this happened, there was no difficulty to k the channel?

Mr. Curry. Not in maintaining the channel. My recollection that the local officer. Captain Cox, and Admiral McKean and be him Captain Beach, recommended the usual expenditure for the dikes and quay walls. Their recommendation was not acted u favorably either by the Navy Department or by the Budget. think the Budget cut out even the recommendation of the Ne Department.

Colonel Roosevelt. Yes, sir.

Mr. Curry. They did that without any knowledge, simply usin

Mr. Byrnes. I want to call your attention to the fact that, s stated a while ago, the Army bill as reported does not specify: project at all.

Mr. Curry. The Army bill as reported has \$27,000,000 in a lu

Mr. Byrnes. Yes. sir: for maintenance of existing river t harbor works.

Mr. Curry. The Army at present has about \$200,000 for t project, which it is saving for this project, and which it does wish to divert to any other project. Under this lump-sum appriation of \$27,000,000 the Army in this case will allocate to project a sufficient amount of money to maintain the 35-foot de

Mr. Byrnes. I should like to call your attention to the fact-Mr. Curry (interposing). In the recommendation of the 1 Department they recommended itemized statements for the differ projects, but the Budget Bureau put in a lump sum of \$27,000. and some odd thousands.

Mr. Byrnes. They first submitted \$42,000.000?

Mr. Curry. Yes, sir.

Mr. Byrnes. They reduced it to \$27,000,000 and some of projects will have to be reduced to bring it down to \$27,000? You are relying on what they have said. I think you better see engineers to make sure the allowance will be made.

Mr. Curry. I know that a sufficient amount for this purpose be allocated by the Army Engineers, because it is one of the I

important Government projects which we have.

Mr. OLIVER. If there should be doubt as to the Army doing ! Mr. Curry feels sure they will do, it could be guarded against in same way that this committee has previously guarded some ap priations by putting a proviso of that kind—you remember was done in reference to the Charleston Dock, and the same lang that we then used could be inserted, being conditioned upon fund being allocated and used for that purpose.

Mr. Curry. They have enough money to take care of the char

they have \$200,000 for that purpose.

Mr. Byrnes. That will maintain it for a year? Mr. Curry. Yes, sir. At the present time the channel has she up in certain places on account of the dykes going out so it would probably more money at this time, but they have enough m to replace the channel and to maintain it for a year and any 1 they need they can allocate out of the \$27,000,000.

EXCERPTS FROM ARMY HEARINGS ON CHANNEL.

Mr. Kelley. I think it might be well to put into the hearings a w excerpts from the Army hearings on this proposition, and that ill put them together. I read from page 1764 of the report of the

ngineers.
Mr. French. For what year? Mr. Kelley. 1921. [Reading:]

The existing project is about 25 per cent completed. The channel across Pinole noal was completed in 1914 under the existing project, and in addition the Navy epartment built a pile dike about parallel with the channel from the southwest int of Mare Island.

Is that the dike we are talking about?

Admiral Gregory. Yes, sir.

Mr. Kelley (reading):

This dike has materially benefited both the Mare Island Strait and the San Pablo by channels. During the past year the dredging work done by the San Pablo has creased the controlling depth in San Pablo Bay and Mare Island Strait channels om 26 to 29 feet, with a minimum width of 100 feet. There was a channel of full oject width with a controlling depth at the end of the fiscal year of 32 feet over inole Shoal in San Pablo Bay and 35 feet in Mare Island Strait channel up to a point >posite dike No. 10.
The following work remains to be done.

Then it tells how much dirt has to be taken out to make the prosct complete.

Mr. Curry. The project is 500 feet wide, the channel 35 feet deep,

nd the turning basin 1,000 feet. You will find that in there.

Mr. Kelley. Yes, sir. It gives three parts of the work yet to be [Reading:] nished.

(a) To dredge Pinole Shoal Channel in San Pablo Bay from the present least depth

32 feet to project depth—total about 600,000 cubic yards.

(b) To dredge the channel in Mare Island Strait to project depth.

(c) To dredge a turning basin opposite the quay wall of Mare Island Navy Yard—tal of (b) and (c) about 2,750,600 cubic yards.

Now, the proposed operations for this current year with the funds vailable.

Colonel Roosevelt. May I ask if that is for the coming year or ie current year that we are in now?

Mr. Kelley. The one we are in now. This was last year's report. **Rea**ding:]

With the funds available at the end of the fiscal year it is proposed to continue the ork of deepening the channel through San Pablo Bay and Mare Island Strait to full oject depth and width, and to dredge a turning basin in Mare Island Strait. For is work it is proposed to use the hopper dredge San Pablo, belonging to this district, tring nine months of the fiscal year 1922, and to operate the patrol boat Suisun by red labor to enforce fishing regulations and other regulations for the protection of vigable waters. The expenditures will be about as follows:

w work: Annual overhauling of dredge San Pablo	\$12,000.00
Operation and repairs to dredge San Pablo, 9 months, at \$10,000 per month. Pro rata cost of operation of patrol boat Suisun, 12 months, at \$250	90, 000. 00
per month. Engineering, superintendence, and contingencies.	3, 000. 00
Total	113 832 36

With the funds then remaining (\$143,000), the following work is proposed for the fiscal year 1923:

New work:

Annual overhauling of dredge San Pablo. \$12,000.00
Operation and repairs to dredge San Pablo. 12 months, at \$10,000 per month. 120,000.00
Pro rata cost of operation of patrol boat Suisun, 12 months, at \$150 per month. 1,800.00
Engineering, superintendence, and contingencies, and office expenses 9,200.00

No additional funds for the fiscal year 1923 are requested, as those on hand are be lieved sufficient for all urgent work during the fiscal year 1923.

WIDTH AND DEPTH OF CHANNEL.

So that puts up the proposition that the Army is going ahed with the project to complete it as it was originally planned, 35 feet deep and of a certain width.

Mr. Curry. Five hundred feet wide.

Mr. Kelley. If we make this improvement then we protect the channel from being filled in again and the yard then will have a clear channel to the Pacific of 35 feet in depth at low water?

Mr. CURRY. That is the project. Over Pinole Shoal there is more

than 35 feet now.

Mr. OLIVER. I should like to ask the officer if he approves of that last statement that we will not have to spend money to maintain the channel?

Admiral Gregory. Except for minor annual dredging. That's

my understanding; yes, sir.

Mr. OLIVER. And you think that result will follow?

Admiral Gregory. I do.

METHOD OF EXPENDING PROPOSED APPROPRIATION.

Mr. Kelley. Now, \$1,300,000 is needed for the dike and of that amount how much can you use during the coming year?

Admiral Gregory. Approximately one-half.

Mr. Kelley. \$650,000? Admiral Gregory. Yes, sir.

Mr. Kelley. Is the other expenditure of \$1,500,000 for the building of wharves and quay walls as urgent as the building of the dike!

Admiral Gregory. I consider it just about of equal importance, for the reason that only during recent weeks the commandant has felt it necessary to absolutely vacate certain walls because of the being undermined. He fears that the other walls and piers will go in the same way.

Mr. Kelley. What is the total berthing space there of the whares

and walls?
Admiral Gregory. The berthing space is about 11,000 linear feet.
Mr. Kelley. Then this money you want, \$1,300,000, is not to extend those, but just to put them in proper condition?

Admiral Gregory. Yes, sir.

Mr. Kelley. To rebuild and repair them?

Admiral Gregory. To rebuild and repair where necessary.

Mr. Kelley. How much can be expended profitably this coming year?

Admiral Gregory. About one-half of that, although it all should be under contract so that we can place it together.

Mr. Kelley. You are asking for an authorization of \$2,800,000

and an appropriation of \$1,400,000?

Admiral Gregory. Yes, sir. I should like to have this made mmediately available.

PORTIONS OF WALLS AND WHARVES IN NEED OF REPAIR,

Mr. Kelley. What part of the 11,000 feet of walls and wharves eed rebuilding; how much of it?

Admiral Gregory. About 3,600 lineal feet of quay wall.

Mr. Kelley. And how much of the wharves?

Admiral Gregory. That is something-

Mr. Kelley (interposing). So you have 7,400 feet of berthing

pace there that is all right?

Admiral Gregory. It is not all right, because we know that the me forces are at work tending to destroy that section as well, and is very likely that we will have to expend money on every lineal ot of quay wall in the yard. The 3,600 feet need attention im**ne**diately.

Mr. Kelley. And the \$1,500,000 that you are asking for is to take

Eare of the 3,600 feet?

Admiral Gregory. To take care of the 3,600 feet and any of the est that needs attention while we are at work.

Mr. Kelley. But in your estimate you did not include that any

f the rest would need attention?

Admiral Gregory. We have not covered any in the actual figures. Mr. Kelley. This amount is based entirely on the repairing and ebuilding of the 3,600 feet?

REPORT OF BOARD.

Admiral Gregory. Yes, sir. This is all very carefully covered in he report of the board to which I have referred heretofore, and I can ubmit a copy of that to you if you care to go over it and also insert opy in the record.

FEBRUARY 13, 1922.

rom: Board on Mare Island Navy Yard matters, Rear Admiral H. H. Rousseau (C. E. C.), United States Navy, senior member; Capt. F. T. Chambers (C. E. C.), United States Navy, member; Commander G. A. McKay (C. E. C.), United States Navy, member; Lieut. Commander H. D. Rouzer (C. E. C.), United States Naval Reserve Force, member; Mr. E. C. Sherman, member and recorder.

Subject: Board report on dikes and water-front structures damaged by teredo, and

on water supply for Mare Island Navy Yard.

References: (a) Bureau of Yards and Docks order appointing board, January 21, 1922; (b) Review of teredo damage; (c) Notes on dikes and channel, history, development, and results; (d) Notes on construction and condition of quay walls; (e) Extracts from reports from yard on teredo damage: (f) Print showing location of dikes; (g) Blue print showing typical cross section, Dike 12: (h) Print showing location of water-front structures; (i) Photostat showing types of quay walls; (j) Photograph showing typical teredo damage to piles; (k) Water supply, navy yard, Mare Island, history; (l) Map showing Gordon and Wild Horse Valleys; (m) Map showing wells in Green Valley and in Suscol district.

Inclosures: (A + to + M), inclusive, same as references (a) to (m).

1. The board appointed by bureau order of January 21, 1922, inclosure A, to inrestigate and report with recommendations in regard to certain matters in connecion with the United States Navy Yard, Mare Island, Calif., having completed its work, submits its findings herewith.

2. The two subjects mentioned in the bureau's precept are as follows:

(a) Condition of dikes and sea walls that have been damaged, principally by the teredo, and remedial measures that are necessary.

(b) Water supply for the navy yard.

These two subjects will be reported upon separately as follows:

3. (a) Conditions of dikes and sea walls that have been damaged, principally in

the teredo, and remedial measures that are necessary.

The board's investigation of this subject has included an examination of the burse files and of various reports on Mare Island, and on the hydraulics of Mare Island Strait and approaches, including the Biddle Board report of June 8, 1905; report to 2 of the Commission on Navy Yards and Naval Stations, dated January 24, 1917; at report of special board of inspection of naval bases on the Pacific coast, known site McKean Board, dated October 20, 1919. Three members of this board have first-had information regarding local conditions, obtained while on duty at the Mare Island Navy Yard. One of these three members was a member of the Biddle Board at two of the same three are members of the Commission on Navy Yards and Mark Stations.

4. The condition on which the board is called upon to report has arisen from the presence of marine borers, principally the teredo, in San Pablo Bay and Mare land Strait, within the last few years, that have attacked all wooden structure in the waters. Attention is invited to inclosures B and E relative to the damage done by these marine worms. Prior to 1913 the borers had never been reported in San Pablo Bay, and until September. 1919, there had been no evidence of damage from the source in Mare Island Strait proper, according to navy yard authorities. Naturally, therefore, up to that time all wooden structures, both in San Pablo Bay and Mare Island Strait had been constructed of uncreosoted material, as the increased conference of the constructed of uncreosoted material, as the increased conference of the constructed of uncreosoted material, as the increased conference of the constructed of uncreosoted material, as the increased conference of the constructed of uncreosoted material, as the increased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of uncreased conference of the construction of the constructed of the constructed of uncreased conference of the constructed of uncreased conference of the constructed of the constructed of uncreased conference of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the constructed of the construct

5. The board has examined the recent reports in the bureau files on the condition of the dikes, sea walls, wharves, etc., at the Mare Island Navy Yard, from which has learned that these dikes, quay walls, wharves, and various other waterfront ostructions of untreated timber have been damaged to such a degree within the last two and one-half years that portions have already collapsed, and the bulk of the remaining works are in imminent danger of failure, which may be expected to one without warning at practically any moment. This condition is a serious measure within and property, and has necessitated placing certain portions of the navy ward.

waterfront structures out of commission.

6. The structures affected may, for the purposes of this report, be considered under three heads:

(I) Dike No. 12, extending out into San Pablo Bay;

(II) All other dives in, and at the entrance of, Mare Island Strait that have less

built by the Navy Department for the channel improvement;

(III) Quay walls, wharves, and other waterfront constructions that have less provided for berthing purposes and for similar operations connected with use of the waterfront.

These three items will be discussed separately as follows:

(I) Dike No. 12.—This is a timber dike, 8,430 feet long, extending out into a Pablo Bay from the south end of Mare Island. It was completed in 1912 at a cond about \$35 per lineal foot. An immense amount of soft silt (estimated at million yards) has settled behind this dike, which acts as a dam in keeping it out of the distribution of the difference in depth of water measured in front and on the back of the distribution is understood to average from 18 feet to 20 feet. This dike has been so weaked by the teredo that it is in a very critical condition, and is in nowise capable of such waves. The failure of any considerable portion of this dike, which may be expected at any time, would be most disastrous, for not only would much of the soft mud, so retained behind this dike, slide into the main San Pablo Bay Channel on a very break up into Mare Island Strait, where it would be deposited at slack water. It maintenance of this dike is therefore seen to have an important bearing upon the prevention of both the shoaling of a portion of the channel in San Pablo Bay, the shoaling of practically the entire area of Mare Island Strait. The failure of the shoaling of practically the entire area of Mare Island Strait. The failure of the shoaling of practically the entire area of Mare Island Strait. The failure of the shoaling of the standpoint of resulting damage only, the board considers an appropriation that will enable this dike to be maintained to be of prime importance.

7. Steps have already been taken by the yard on a small scale to riprap the use side of the dike, using material excavated from the hill forming the south end of lar Island. The suitability of this material is in question. It is probably the because available in the vicinity, and at least; can be used to advantage for the lower ports.

ie riprap mound. An appropriation of a considerable sum will be necessary to

plete the riprapping with suitable material.

1) All other dikes.—These dikes were finished about 15 years ago, at an average of about \$30 per linear foot. They include the two dikes at the entrance to Mare of Strait, Nos. 9 and 14; various other spur dikes below the navy yard, Nos. 1, 2, 5, 6, 7, 8, 10, and the longitudinal dike. The failure of the longitudinal dike he Vallejo side, that parallels the channel for a length of about 2,500 feet opposite navy yard, would be accompanied by results similar in character to, though in importance than, the failure of Dike No. 12, noted above. The failure of the ous spur dikes, while of considerably less individual importance, would be mpanied by gradual deterioration of the channel in Mare Island Strait, which ld necessitate expensive dredging. The board understands that the present ag depth of channel in Mare Island Strait below the navy yard is about 26 feet at n low water. The maintenance of all the existing dikes is necessary to insure the ntenance of a channel of this depth, which is the minimum to be contemplated. s, of course, well known that a channel of greater depth would be desirable. maintenance, therefore, of all of these dikes is absolutely necessary, no matter t may be the future of Mare Island as regards its further development as a navy l for building and repair.

The board favors, as the quickest and most easily applied remedy, with the ed advantage of permanence, the riprapping of all of these dikes, including Dike 12, with the cheapest suitable material, the riprap to be carried to such a height considered necessary by the local authorities. This method would retain, so far ossible, the existing dikes. It might be found necessary and cheaper for a portion

ne work to use creosoted sheet piling and creosoted standard piles.

II) Quay walls, wharves, and waterfront constructions that have been provided

perthing purposes and similar operations connected with the use of the waterfront: are Island Navy Yard has always been short of berthing space, and now, within last two and one-half years, practically all of its waterfront improvements, as tioned above, have been damaged to such a degree that portions have already apsed, and most of the remainder are in imminent danger of failure. This condiis a serious menace to both life and property, and is a great handicap to the navy las regards ship repairs and other operations. Repairs to the quay wall are under to the limit of available funds, which are very meagre indeed. To date about linear feet of quay wall out of the 3,600 feet affected have been repaired, and an itional section of 200 feet is at present under repair. Repairs have also been made he outboard foundation of the cantilever crane serving the building ways, to the vapron, and to the timber wharf adjacent to Dry Dock No. 2. Some of the magawharves have been repaired, and funds are available for the reconstruction of circulating loop to the power house. The causeway has been made safe for traffic. A portion of the main quay wall not under repair has already failed. The quay on both sides of the entrance to dry dock No. 2 has been condemned and can be used by traveling cranes. Examinations made along the sea wall where setient of the payement and tracks has occurred have shown the presence of cavities liferent sizes, which render the use of the adjacent ground and railroad tracks ife. Recent failures of water-front structures in different parts of San Pablo Bay P occurred suddenly and without warning. Mare Island structures affected by teredo are liable to fail in the same way. The berthing space at Mare Island, sisting of quay walls, wharves, etc., constitutes an essential and indeed the most ortant connecting link between vessels of the fleet and the yard facilities for the ir, supply, and maintenance of the fleet, and until the yard can be provided safe and convenient berthing space, which it now lacks, it will be very seriously licapped. The appraised value of Mare Island structures is about \$12,000,000, hich amount the water front improvements constitute about 10 per cent. al value to the yard as a necessary facility is really several times this figure. repairs must be of more permanent and expensive construction than that origy adopted. Material exposed to sea water must be of concrete, creosoted timber, prap.

. Such, briefly described, is the present very critical situation of Mare Island y Yard, that can not be relieved or improved without immediate and substantial opriations from Congress. For unless sufficient funds become available at an v date, that would enable the progressive failure of Mare Island's water-front tures, including dikes, to be checked, the usefulness and value of the navy yard diminish at an increasingly rapid rate, with the disappearance of the remaining hing space and the shoaling of Mare Island Strait; and the Government, in any will undoubtedly be called upon to make good any damage resulting from the ise of the vast quantity of silt through the failure of dike No. 12, which, on account of causing the shoaling of the dredged channels across San Pablo shoals and in Mar Island Strait, will be detrimental to commercial as well as naval interests, and which

will require large Government appropriations for its removal.

11. The board does not understand that any change is contemplated in the policy of the Navy Department to retain the Mare Island Navy Yard as a permanent important shore station, and its views are entirely in accord with the following conclusion and recommendation of the Commission on Navy Yards and Naval Stations, made in 1917, relative to Mare Island Navy Yard:

'Mare Island has many advantages due to defensible location, climate, labor supply existing dry docks and shops, plant equipment, and various navy-yard accessors of great value and possible service to the fleet; and for these reasons its retention and we for shipbuilding and the repair and maintenance of the fleet, within the limitation imposed by 30-foot channel approaches, is desirable, advisable, and recommended."

This board, moreover, does not consider that the advent of marine borers in Su Pablo Bay and Mare Island Strait is a matter that should affect the present policy

regarding Mare Island.

12. There is, therefore, in the opinion of this board, only one course open, and that is to repair and replace the damaged structures with construction that will not affected by marine borers, so as to maintain Mare Island on the same plane of imprance and usefulness as before its structures were attacked. No lowering of this plane or lessening of the usefulness or facilities of the yard should be contemplated.

13. The board strongly recommends that this course be approved and follows, and if Congress appropriates at this session sufficient funds to start immediately the work of salvaging and reconstructing those structures whose failure would result in the greatest detriment to the navy yard and the greatest damage to the United States, there is every reason to hope that a considerable portion of the important structure may be saved, thus avoiding further damage, which would entail greater expense a later date. This course would contemplate the reconditioning or replacing of the damaged structures so as to restore as nearly as may be the conditions existing at the Mare Island Yard as regards channels and as regards berthing space before the mains befores made their appearance. This course may be defined as merely maintaining the status quo of Mare Island Navy Yard, without attempting to put it in a different state than it had before the present crisis arose.

14. Of course there have been various recent propositions for enlarging the sope and the facilities of the Mare Island Navy Yard, as well as for the establishment of a naval base elsewhere in San Francisco Bay. The board does not consider, however, that these questions have any connection with the matter of retaining the status que of Mare Island, for the work recommended herein will be necessary in any case, and will not interfere with any solution that may ultimately be reached on the separate and distinct problem of increase of naval shore facilities on the waters of San Francisco

Bay

15. The yard's estimates, as submitted to the Bureau of Yards and Docks in the replar manner, are based on merely retaining Mare Island's status quo, and contemplate no important construction other than that required to replace the original structure in a permanent manner. The estimates submitted June 20, 1921, for the fiscal year 1923, are as follows:

Project No. 1, for rebuilding timber wharves and quay walls on account of teredo:	damage . y
Item 1, repairs to 3,600 feet of quay wall at \$350 per linear foot	\$1,260.000
piling at \$1.75 per foot in place	240.000
Total for project No. 1.	
Project No. 2, repairs to dikes:	
Item 3, riprapping Dike No. 12	1, 100,009
Item 4, riprapping longitudinal dike	130,000
Project No. 2, repairs to dikes: Item 3, riprapping Dike No. 12 Item 4, riprapping longitudinal dike	70,000
Total for project No. 2.	1. 300.000
Total for projects No. 1 and No. 2	2, 800, 000

16. In its review of these figures the board has come to the conclusion that this total of \$2,800,000 is a conservative estimate of the sum required for the two projects. Dependent upon the source of supply of the materials, there may possibly be sore saving from the item of \$1,100,000 for riprapping Dike No. 12, but the sum of \$70,000 for riprapping Dike No. 1

all other dikes, if restored as recommended by this board, would be much too small. I any savings from Dike No. 12 would be required for the other dikes; so that the al of \$2,800,000 will be necessary in any case. The board is of the opinion that the nediate appropriation of this total sum will result in saving a larger percentage of damaged property than would be possible if the amount for present use be limited, lesser sum. In any event, economy dictates that the total of \$2,800,000 be authord immediately for the purposes of making continuing contracts, and that \$1,500,000 750,000 on each project—be made immediately available for work to be prosecuted ing the fiscal year, to save structures in imminent danger of failure. The foregoing as are required in addition to an unallotted balance of \$48,500 from an appropriate of July 12, 1921, for the "Maintenance of dikes and dredging."

7. Five items of work appear to be almost equally urgent and should be underen simultaneously, viz, (1) reconstruction of quay walls near entrance of Dry Dock. 2, (2) riprapping Dike No. 12, (3) reconstruction of timber wharves, (4) riprapping gitudinal dike in Mare Island Straits, and (5) riprapping Dikes 9 and 14 at the

rance of Mare Island Straits.

8. The board therefore recommends that every effort be made to secure approations as quickly as possible to perform this work in accordance with the navy d's estimates of \$2,800,000.

9. (b) Water supply for the navy yard, Mare Island, Calif.—There are no sources fresh water on Mare Island, and the navy yard, originally depending upon such ter as could be collected in cisterns, has obtained its supply from Vallejo for more in 40 years. The quantity available has at times been inadequate, but it has not en deemed necessary or advisable to seek from Congress the appropriation which uld be necessary for the installation of an independent water supply, and the yard s continued to place dependence upon the city of Vallejo for many years, which has scontinued to place dependence upon the city of Vallejo for many years, which has cordingly an implied, if not a direct, responsibility at present for maintaining rater supply adequate for all requirements of the navy yard in addition to those the city of Vallejo. Since May, 1918, the Navy has been obliged to lease wells Green Valley and pump into the Vallejo mains, in order to obtain a sufficient pply. The lease expires on June 30, 1922, and it becomes necessary to obtain a w source, the owners requiring the Green Valley wells for irrigation purposes. ese Green Valley wells were required to supplement the Vallejo city supply from 1d Horse Valley, which, owing to the scanty rainfall of the past few years, had come practically exhausted.

20. When this board was appointed in January, serious doubt existed as to the y's intention to recognize its responsibility in this respect; but correspondence eived by the bureau from the navy vard since then, and oral statements made to Doard in Washington on January 30 by Dr. James J. Hogan, president of the amber of Commerce of Vallejo, indicate that either the city of Vallejo or a group its citizens will finance and prosecute any necessary increase or modification in the esent water supply system, and that therefore no further action by the Navy Detiment at this time will be necessary. The plan contemplated is to supplement present supply when the Green Valley wells have to be abandoned within the xt few months, by obtaining a supply from the Suscol wells and connecting up the ter with the city supply main. If definite assurances, which have been asked of llejo by March 1, 1922, are not received relative to increase in the present water oply, it will still be possible, as outlined in inclosure "K" for the Navy Department, make all necessary arrangements to obtain the Suscol supply for its own use before mping from the Green Valley wells must stop.

11. This board, therefore, recommends that no action be taken and no decision be de by the Navy Department prior to March 1, 1922, on the water supply matter, I that if by that time Vallejo or Vallejo interests do not offer a satisfactory solution the water supply question, the Navy Department proceed to obtain a supply for own use from the Suscol wells, which are understood to be the most convenient

practicable source of supply available at the present time.

H. H. ROUSSEAU, Rear Admiral (C. E. C.), United States Navy, Senior Member. F. T. Chambers, Captain (C. E. C.), United States Navy, Member. GEO. A. McKay, Commander (C. E. C.), United States Navy, Member. H. D. ROUZER, Lieutenant Commander (C. E. C.), United States Naval Reserve Force, Member. E. C. SHERMAN,

Supervising Engineer, Member and Recorder.

DETAILED COST OF IMPROVEMENTS.

Mr. Kelley. Have you the details of the \$1,300,000 for the dike and the \$1,500,000 for repairing the wharves and walls?

Admiral Gregory. I have not the details of that work.

Mr. Kelley. Could you put that in the record?

Admiral GREGORY. That detail as worked out originally is on the west coast and I have it not available, but we made a rough checking up in the bureau to secure agreement with that figure and to prove the original detail.

Mr. Kelley. That is \$417 a foot. That seems quite high. How

does it strike you?

Admiral GREGORY. I think that, perhaps, is due to a misunderstanding of the interpretation, that it will apply to only 3,600 lines feet. While the 3,600 is all that we now know of that needs almost a thorough rebuilding, we are confident from the nature of the walks and wharves that it will necessitate working all the time to protect the balance of that entire structure.

Mr. Curry. That is the information that I received.

Mr. Kelley. To the effect that the entire 11,000 feet was in danger?

Mr. Curry. Yes, sir; not immediate danger.

Mr. Kelley. Will you put into the record, Admiral, a detail of the cost entering into these estimates, \$1,300,000 for the dikes giving the per foot cost or the per ton cost or the per cubic foot cost whichever is proper, and also the \$1,500,000 for the rebuilding of the wharves?

Admiral Gregory. Yes, sir.

Mr. Kelley. So that we can advise the House definitely about it.

Maintenance of dikes and dredging.

Riprapping and repairing timber work in order of importance:	
Dike No. 12, 8,430 linear feet, at \$80	\$674, 400
Dike No. 9, 2,100 linear feet, at \$100.	210.000
Dike No. 14, 1,500 linear feet, at \$100.	150,000
174C AO. 14, 1700 invarient, at \$100	
Longitudinal dike, 2,500 linear feet, at 860	150.000
Dike No. 8, 700 linear feet, at \$35	24.50
Dike No. 6, 550 linear feet, at \$35	19. 250
Dike No. 4, 500 linear feet, at \$35	17, 500
Dike No. 2, 400 linear feet, at \$35.	14,000
Dike No. 1, 410 linear feet, at \$35	14, 350
Dike No. 7, 400 linear feet, at \$35	14,000
Take No. 9, 400 know foot at 990	12 000
Dike No. 3, 400 linear feet, at \$30	1
Total	1 200 000
10(a)	1, 300, 00
7) 1 '11' 1 1 1 1 1	
Rebuilding wharves and quay walls:	
Repairs to timber wharves, 3,000 linear feet of wharf or pier, average	
width 40 feet, at \$80 per linear foot, or 120,000 square feet, at \$2 per	
square foot	240. NB)
Repairs to 3,600 feet of quay wall, at \$350 per linear foot	1, 260,000
m.a.1	7 500 000
Total	1, 200,00

NAVY YARD, PUGET SOUND, WASH.

The next item is "Navy yard, Puget Sound, Wash.," roadways and sidewalks, \$25,000?

ROADWAYS AND SIDEWALKS.

Admiral Gregory. That is for the purpose of building paving and clewalks on an area which has recently been graded down. That rading has been done under an appropriation for grading and filling the navy yard and the nature of the material is generally sand and ravel, and it is the desire to have paving put over the newly excated soil in order that it will facilitate transportation not only on bot, but by vehicle throughout the yard. Quite a big area has been acorporated by the grading operation there, so that we are calling ow for this appropriation of \$25,000 to do the most essential portion f one through line from the eastern to the western portion of the ard.

Mr. Kelley. Just a driveway? Admiral Gregory. Yes, sir.

ains.

Mr. Kelley. How long will the driveway be?

Admiral Gregory. The length now proposed is about 1,600 feet. Mr. Kelley. And the ordinary width of driveway, about 20 feet? Admiral Gregory. Thirty-two feet.

Mr. Kelley. That will cost \$25,000?

Admiral Gregory. \$25,000, with the sidewalk. That includes raining and putting the culverts across the drains so the road will a complete and in proper condition.

CENTRAL POWER PLANT IMPROVEMENTS.

Mr. Kelley. Central power plant improvements, \$40,000? Admiral Gregory. That covers the reconstruction of the steam nd hot water mains from the main street of the yard to Pier No. 5 nd increases the capacity for relieving the dry dock and Pier No. 5 nd the improvement of the electric distribution system around the ard. I have known for some years that the original installation of he distribution mains has been insufficient to carry the current for he large ships that now go to the yard. I was the public works fficer there for a number of years. During the period when the cet was moved up to the west coast we got along very well until that ime, but that thrust an additional load on the power plant of the ard, which has been provided for within the last year or so by an ppropriation which has permitted the yard to put in larger machinery the power plant itself, but the distribution lines are still too small. is like throttling down the output of the large generators. So

Mr. Kelley. Is it made necessary somewhat by the additional lops that we provided, the extension of shops?

us sum is asked for to complete the enlargement of the distributing

Admiral Gregory. Only partly, but not entirely by any means. Mr. Kelley. And somewhat to the reconstruction of the disibuting lines?

Admiral Gregory. The reconstruction of the distributing lines is sed on the fact that we have larger ships going out there and ey require more current and we have to have larger lines to carry e current.

EXTENSION OF PIER NO. 4.

Mr. Kelley. "Pier No. 4, extension, \$500,000?"

Admiral Gregory. Pier No. 4 is a concrete pier that was built a 1914 and 1915. It is only 500 feet long. It is the pier which is relied on almost exclusively at the present time for taking the largest of the ships, because it is the only modern pier they have, but it is to The need for lengthening that pier to such an extent that will permit these large ships to lie alongside is an urgent necessity in accordance with the development plans which were worked w a number of years ago and approved by all branches of the Nav Department as being necessary.

Mr. Kelley. How much berthing space have you there without

this pier?
Admiral Gregory. About 2,500 feet one side of piers.

Mr. Kelley. Including Pier No. 5 which has been extended!

Admiral Gregory. Not including Pier No. 5.

Mr. French. How is the work progressing on Pier No. 5 for which

an appropriation was made last year?

Admiral Gregory. The contract was signed for that about month ago. I imagine that the work is just fairly beginning by the contractors.

Mr. French. How long will it take to complete that?

Admiral Gregory. I think possibly 12 months.

Mr. French. Does this 2,500 feet of berthing space include that

Admiral Gregory. That is a different pier. That is Pier 5 and

this is Pier 4.

Mr. French. I know, but in the yard you have 2,500 feet of berthing space exclusive of Pier No. 5?

Admiral Gregory. Yes. sir. Mr. French. How much will Pier No. 5 give you?

Admiral Gregory. Pier No. 5 will give us 2,000 feet.

Mr. French. That will make a total of 4,500 feet?

Admiral Gregory. Yes, sir.

Mr. French. Without Pier No. 4 being extended?

Admiral Gregory. Yes, sir.
Mr. Kelley. Nearly a mile of berthing space. Will that be suff-

cient out there?

Admiral Gregory. It is not so much the length as it is the number of ships you have to take care of, particularly when there are a lot of large ships such as we have to send to that yard. That yard is the only yard where the large battleships in our service can go alongside on the Pacific coast.

Mr. Kelley. You can use Pier No. 5?

Admiral Gregory. After we get it completed, but from now on t will be out of commission. After it is rebuilt we can use it.

Mr. Kelley. Have you not started to build that pier yet? Admiral Gregory. They are just about beginning. The control was let within the last month.

Mr. French. What berthing space will Pier No. 4 give you?

Admiral Gregory. Pier No. 4 will give us-Mr. French (interposing). I mean the extension.

Admiral Gregory. The extension will be 1,420 feet. That is 71 feet on each side.

r. Kelley. Is this 2,500 feet of berthing space on one side or sides of the pier?

dmiral Gregory. That is based on one side only.

r. Kelley. So you would have 5,000 feet on the two sides? dmiral Gregory. Yes, sir.

r. Kelley. Then, when you get 2,000 feet on Pier No. 5, that is side?

dmiral Gregory. No; two sides.

Ir. Kelley. So that would be 2,000 feet more, or you would have 10 feet of pier space there? dmiral Gregory. Yes, sir.

NUMBER OF VESSELS TO BE BERTHED.

r. Kelley. How many vessels are you planning on berthing e?

Imiral Gregory. The record we have shows that at one time ave had as many as 26,000 linear feet of vessels at that yard.

r. Kelley. What were they-mostly destroyers?

Imiral Gregory. All kinds, battleships, cruisers, destroyers, fuel 3, and subchasers.

c. Kelley. You realize that is 5 miles of ships? Imiral Gregory. Yes, sir.

r. French. That does not include those tied up?

Imiral Gregory. That includes everything laying at the yard. r. French. A little over a year ago when I was there, there were eat many ships rather locked together and I supposed just merely rided with men enough to care for them, tied up in the water. dmiral Gregory. They have been moored off the yard, moored

er to buoys or with their own anchors.

Ir. French. They do not need any berthing space? dmiral Gregory. It is desirable that they should have berthing e. Whenever they are lying outside like that they are not ing the attention which they should be given. If they have a crew on board and no work to be done on the vessel, then there o possibility of having them like that. If they have to have I workmen aboard there is a great loss of time in not being able ome back and forth frequently and get materials and tools when-required. On the other hand, if the ship is out of commission, also desirable to have her along a pier so she can be more accesto the working parties of the yard rather than entirely separate the yard supervision.

FOOTAGE OF PIERS.

r. Kelley. Let us go back to the pier again. You have or will 6.000 feet when your present improvements are completed, and want to add 1,500 more feet; is that correct? Imiral Gregory. Fourteen hundred and some odd feet; yes, sir. r. Kelley. Has your contract been let for Pier No. 5? Imiral Gregory. It was let about a month ago. r. Kelley. And that will be completed within the amount of

r. Kelley. And that will be completed within the amount of appropriation! Imiral Gregory. Yes, sir; the amount of contract recently

ded was within the appropriation.

Mr. Kelley. How many battleships will be berthed there? Admiral Gregory. That depends entirely upon how many the department assigns to the Pacific and how many they send up then

There have been as many as nine battleships there. at one time.

Mr. Kelley. How many are in the Pacific now?

Colonel ROOSEVELT. That I can not tell at this particular moment

Mr. Kelley. Are there nine?

Colonel Roosevelt. There were more than 9; I think the number is 10, but I would not swear to that.

BERTHING FACILITIES AT MARE ISLAND.

Mr. Kelley. You have some at San Francisco?

Admiral Gregory. The largest ships do not go into the Mar Island yard.

Colonel ROOSEVELT. This is really the yard for the largest ships. Mr. Kelley. About the largest ones you have got were built a Mare Island, and if they came out they should be able to go in.

Admiral Gregory. No, sir; because when they came out they did not have their guns and stores on board, but they came out light.

Mr. Kelley. They come out on high tide?

Admiral Gregory. Yes, sir.

Mr. Kelley. They come out all right? Admiral Gregory. Yes, sir; when they are light. Mr. Kelley. They could also go in at high tide. Admiral Gregory. Yes, sir; at extremely high tide.

Colonel ROOSEVELT. It is too touchy a proposition in the case of big battleship, Mr. Chairman.

Mr. Kelley. You will find that they can go in there all right. Colonel ROOSEVELT. It is the kind of thing you would not want

do if you could help it. Mr. Kelley. There has been a good deal of propaganda going of

against the Mare Island yard that is not deserved.

Colonel Roosevelt. All I can say is that it is not particularly propaganda, but it has been investigation after investigation.

BERTHING FACILITIES OF PUGET SOUND YARD.

Admiral Gregory. We feel that the pier outfit at the Puget Sound yard, which, until you recently authorized the reconstruction of Part No. 5, was entirely out of date, is inadequate. The piers were short and not suited to the needs of the yard. We have been trying w modernize that yard in all ways, since it was the policy of the depart ment to have the large ships on the Pacific coast. That has altered the complexion of the entire situation.

Mr. Kelley. You are speaking of Puget Sound?

Admiral Gregory. Yes, sir.

Mr. Kelley. There is no doubt about this being a fine place 👊

there, because the water is deep.

Admiral Gregory. There is none whatsoever. The natural corditions of the yard are considerably superior to those of any other yard we have.

Mr. Kelley. But the geographical location of it will always me a less use of that yard than would be the case in the neighborhood in Francisco. Whatever development is made there, it will be the

nief place on the Pacific.

Admiral Gregory. That does not necessarily follow. It depends itirely upon how much you find may be necessary for the developent of Alaska, and upon the question of whether maneuvers will be eld in the North Pacific at some future time.

Mr. Kelley. Is there much fog up there?

Admiral Gregory. They have fogs up there, but I do not know nat it is any worse than at any other place. I have seen as much t New York or at San Francisco.

Mr. French. Is it more so at San Francisco?

Admiral Gregory. There is not a great deal of difference with egard to fog conditions between Puget Sound, San Francisco, and ew York City.

Mr. Kelley. If you do not get Pier No. 4, you do not want the redging !

Admiral Gregory. The two do not go together.

Mr. Kelley. The dredging is up against the sea wall, is it not? Admiral Gregory. No, sir; that dredging is in two places—one lace next to Pier No. 4, and in another area between Piers 7 and 8. hose are two areas which have not been heretofore dredged, and iev are original bottoms.

COST OF DREDGING AREA BETWEEN PIERS 7 AND 8.

Mr. Kelley. How much will it cost to dredge the area between iers 7 and 8?

Admiral Gregory. That would probably take three-fourths of it. Mr. Kelley. \$35,000, or some such matter?

Admiral Gregory. I think our estimate was arbitrarily reduced, cause prices were dropping.

Mr. Kelley. Is it about \$35,000 for the two?

Admiral Gregory. In the event we dredge the area between ers 7 and 8, it would probably cost about \$40,000, and the area next Pier No. 4 would take the remaining \$10,000. However, the two ould really have to go together in order to get the benefit of that w unit price.

Mr. Kelley. My recollection is that you built a sea wall down ere to hold the earth that you had scraped down when you leveled the hill there into the sea. You then built a sea wall, and the

ers come up next to the sea wall. Admiral Gregory. Yes, sir.

Mr. Kelley. And it will take some dredging at that point if you ild additional piers!

Admiral Gregory. No, sir; that is not the same pier. g is to be next to Pier No. 4, and it is not on account of that new or sea wall.

Mr. Kelley. I thought the sea there was very deep.

Admiral Gregory. This new fill that you speak of would be about wn here [indicating]. This [indicating] is Pier No. 4, which has a nber approach, with concrete from that angle [indicating] out. We w propose to extend it out 710 feet more. This area is right at e entrance to the dry dock as well as at the approach to Pier No.

It is desired to have this area dredged out in order to entirely

remove any obstruction to the entrance to the dock as well as pier.

Mr. Kelley. This earth should be removed from the approx

the present pier.

Admiral Gregory. Yes, sir; from the dock entrance.

Mr. Kelley. That part, you say, will cost \$10,000, provided

be done in connection with the other job?

Admiral Gregory. Yes, sir; the relative proportions are \$! as against \$49,000, making a total of \$60,000, but we have arbit reduced that to \$50,000, or one-sixth, provided the two go tog

RIFLE RANGE, INCLUDING PURCHASE OF LAND.

Mr. Kelley. Now, as to the rifle range, including the purch

land. Is that adjacent to this yard?

Admiral Gregory. That is not adjacent to the yard, but it is 10 or 11 miles north of the yard. This is a proposition which has discussed for a good many years, and during my period of du that station I had to make a great many searches in different por of the country to find a site which would be suitable for a rifle r It was felt to be a crying necessity for the enlisted force to get p training in the handling of small arms in all ways possible, and i important to find a suitable place. The Government does o rifle range, so called, directly south of the navy yard, on the Orchard side of the bay. That range is a stretch of land with backstop, however, except a few small trees. Much of the star timber is on private property north of the station, and we have threatened with damage suits very strenuously by the ow because bullets come into their timber and they have lost a l timber by getting some filled with the bullets. The principa jection to that range, however, is the fact that during a large po of the year the site is practically cut off by reason of the impas roads, and it has been found that the Government simply could make use of it. Now, we have made investigations there that been extended over a great many years. I have personally train over a great many square miles of that territory with a vie finding a suitable place, and other officers also have been me After searching for approximately seven or eight y searches. we finally found this particular area, and have not succeeded in ing anything better since then. It is within a mile and a half o water front at the torpedo station.

DISTANCE OF PROPOSED RANGE FROM NAVY YARD.

Mr. Kelley. How far is it from the yard? Admiral Gregory. It is 11 miles north of the yard. Mr. Kelley. How much land do you want to buy?

Admiral Gregory. The area is 320 acres. It is one mile n and south and half a mile east and west.

Mr. Kelley. It is 11 miles from the yard?

Admiral Gregory. It is 11 miles from the yard by way of the I port Pier. This rifle range is about a mile and a half south by from Keyport Pier.

Mr. Kelley. It would be about twelve and a half miles from

var 🔢

Admiral Gregory. Yes, sir, of which 11 miles would be by we and one and a half miles by land, but coming back towards the ye

COST OF RANGE AND RANGE SITE.

Mr. Kelley. How much would it cost to put the range in use?

Admiral Gregory. The appropriation now being requested will provide for the purchase of the land, together with the most urgent butts that will be required. It would probably be a good many years before we would expand enough to use all of it as a range, so as to require any further appropriation. Furthermore, it is likely that whatever else had to be done would be done by the enlisted force on detail there using the range.

Mr. Kelley. What amount is estimated for the land?

Admiral Gregory. We had to guess at the amount for the land, but we have a close figure. In fact, we had refusals from property owners, and every year we postpone the purchase we find that it goes up.

Mr. Kelley. What is the assessed valuation?

Admiral Gregory. The total value on which assessment is made runs only to \$3,685, but I know that is only a very small proportion of the land we would have to buy.

Mr. Davis. Are there any improvements on the land?

Admiral Gregory. It is about half and half. Some of it is improved.

Mr. Davis. What do you mean by improvements in that connec-

tion? Is it farming land?

Admiral Gregory. It is grazing land. About one-half of the entire area is wooded with scrub timber, and of the remaining half probably two-thirds is grazing land and the other one-third is farming and.

Mr. Davis. \$3,500 would be a good price for it.

Admiral Gregory. The average price during the periods we have had the project under consideration, covering this entire area, has been about \$22,000, but we have been holding these people off so long that I do not believe that we could get them to renew those options at that figure, and I dare say we would have to pay almost double that at the present time.

Mr. Kelley. Have you used this land?

RENTAL OF SITE AND COST OF ITS PURCHASE.

Admiral Gregory. We have actually used it for firing for years, and it has been very satisfactory.

Mr. Kelley. You are using it now?

Admiral Gregory. We are using it now on a rental basis, getting it from time to time.

Mr. Kelley. How much are you paying a year for it?

Admiral Gregory. At first they did not ask anything for the rental. They wanted us to try it and see if it were suited to our Purpose, and for the first year, as I recall, it cost us nothing. Since then the land has been used on a rental basis through the Marine Corps, and I have no record of what they pay. As I recall it, however, the rental is about \$100 a year. The portion that has been in use is the good land. They have not been using the rough land.

Mr. Kelley. Is there any particular urgency about buying it?
Admiral Gregory. While there may not be any great urgency, it
a thing that is decidedly missed out there when the fleet is at

Bremerton, because they have no way in which to train the men in the handling of small arms.

Mr. Kelley. You would need to make some improvements on the

land?

Admiral GREGORY. Yes, sir; we would have to build targets and firing butts.

Mr. French. I would like to go into the cost of this land a little

bit more. You say that the assessed valuation is \$3,900.

Admiral Gregory. \$3.685 is what we have got from the tax books. Mr. French. I am somewhat familiar with the ratio of assessed values to real values, and I would say that the price that they are asking for it on the basis of even \$22,000 is simply outrageous. I think you will find that they are asking that price because we are talking about acquiring it. If we had the same law that they have in Australia, under which the State could buy the land at the assessed valuation, or else that the owner be compelled to pay taxes on the higher basis, you would not have any such fictitious valuation placed on that land as \$22,000. I think the way to acquire that land is to abandon all interest in it until they have dropped down to the proper value.

Admiral Gregory. I do not think that would have any effect. I am decidedly in agreement with you in regard to the question of the assessed valuation, but I am also aware of the fact, having been in touch with a great many land purchases in and around Puget Sound that there is no relation whatever between the assessed value and

the actual sale value.

Mr. Byrnes. As a matter of fact, that is true in many cases.

Admiral Gregory. It would be so in that location.

Mr. French. I suppose values have changed pretty rapidly over there, because the country is growing; but, at the same time, it seems to me that there should be a closer relationship between the assessed value of the land for taxing purposes and the price at which they offer to sell it.

Admiral Gregory. Yes, sir; but that is something over which

I have no control.

Colonel ROOSEVELT. As I understand it, this is a hand-to-mouth proposition. We can not get a long lease from them out there and we can not rent it for a long period of time. The probabilities are that at any time we may be turned right off, and from the general trend of the situation out there and from the way that coast is developing, it is probable that the longer we wait the more we will have to pay.

Mr. FRENCH. Is not this a question that you would have to take

up with the other committee?

Mr. Kelley. I thought that we had as well get the facts about now.

Colonel ROOSEVELT. That is about the general situation there is it not, Admiral?

Admiral Gregory. Yes, sir; that is perfectly correct.

ADAPTABILITY OF SITE FOR TARGET PRACTICE.

Mr. Kelley. If this place was being improved for other purpose, they would not want to sell this tract for a rifle range. The fact that they are willing to sell it for a rifle range indicates that the whole region is not to be used for anything else.

Admiral Gregory. It happens that at the north end of this operty there is a high hill bordering it, 400 feet above the plain the South, and we have selected this land because it is in such

ape that the shooting will be into this high hill.

This hill has such a steep slope and is, furthermore, so densely ooded that it is not likely that that particular land or the sur-unding land would be developed. The small plain that we are ow using for rifle-range purposes is farming land. When we first ent in there they were farming a certain percentage of it, but since ten additional land has been put under cultivation. That has been one because the population of the district has been increasing. Insequently, we felt like this, that the longer we put it off the more ice will be asked, for the reason that more and more of the land ll be under cultivation. Now, the rough land, or what is called sture land, or land that is covered by scrub brushes, poplar, etc., not of very great value, but the part that is under cultivation has ralue and it is increasing in value all the time.

TEMENT OF PROGRESS OF WORK ON PATTERN-SHOP EXTENSION, DRY DOCK, ETC.

Mr. French. Probably we should have a statement covering the ogress of the work there on the pattern-shop extension, the dry ck, and the additional storage facilities.

Mr. Kelley. Suppose you put in the record a statement of the ogress you have made on the work in connection with each one of improvements appropriated for last year.

Admiral Gregory. I will do so.

rading, filling, and sea-wall construction, \$250,000. This appropriation is com-

tely obligated under contract recently awarded for quay wall. Seel blocks for Dry Dock No. 2, \$6,500. These blocks are being delivered, and being installed by yard forces.

2xtension to building No. 178, \$13,500. This building is being erected by yard res under allotment of funds. Work just begun.

2oadways and walks. \$25,000. Work completed by yard forces.

er 5. \$715,000. Contract awarded latter part of February, 1922. Work has

ted. elephone improvements, \$10,000. Requisition for all equipment forwarded to reau of Supplies and Accounts, via Secretary, March 17, 1922.

*attern-shop extension, \$90,000. Work under way by yard labor.

*ifty-ton dry-dock crane, \$200,000. Materials for this crane are all assembled at

nt of fabrication. Fabrication is 25 per cent complete, and shipping orders have n forwarded to the contractor.

additional storage facilities, \$95,000. Plans and specifications for this development complete, and the project is now under advertisement.

BATTLESHIPS ON PACIFIC COAST.

Colonel Roosevelt. Before we go on I should like to say that my tement as to the number of battleships in the Pacific was correct. here are 10 there now, but 11 will be there in the near future. aryland is undergoing some minor repairs before going there, so ere will be 11 in all. In that connection I would just simply like to int out that the number of lineal feet does not necessarily mean e number of feet that can be used for berthing battleships, because stand ready to be corrected by these gentlemen at any time—you n very often have lineal feet which would be simply useful for rthing smaller vessels, but are not of such an extent that they ould be useful for berthing battleships. That is correct? Admiral GREGORY. Yes, sir.

Mr. Kelley. Where you have a long pier, 500 feet or 700 feet. length of the pier determines the number of battleships?

Colonel Roosevelt. Yes, sir. You can not put two and a hal

one and a half ships—that is what I meant.

Mr. Kelley. With this yard at Mare Island put into the sh we are now planning, it probably would be much more likely to used extensively than the northern yard, do you not think so?

Admiral Gregory. By the larger ships which do not go up th

as they do to Bremerton.

Mr. Kelley. There are much better shops at Mare Island that Bremerton?

Admiral Gregory. Somewhat, but both yards are fairly t

equipped with shop space at the present time.

Mr. Kelley. My understanding was that Mare Island was ext tionally well equipped—they built the California just recently the Admiral Gregory. Yes, sir. Battleship machinery can not built completely at Bremerton.

Mr. Kelley. If the channel difficulty is taken care of, the years.

at once becomes a great asset?

Colonel Roosevelt. That is why I reserved until to-morrow I statement on the matter.

NAVAL STATION, PEARL ISLAND, HAWAII.

ADDITION TO MACHINE SHOP.

Mr. Kelley. At Pearl Harbor you are asking for an addition the machine shop, \$200,000. What about that, Admiral? I provided for an addition there last year, \$200,000; has that be completed?

Admiral Gregory. Under the appropriation acts of June 4, 19 and July 12, 1921, the appropriations aggregate \$300,000 for t

project.

Material for a modern steel building, 523 by 180, with cranes secured from the War Department without transfer of funds was shipped to Pearl Harbor. Foundations for this building being installed by station labor, and it is expected that contracts the erection of the building proper will be awarded in the near futu contract for erection of the steel has been awarded and work is un An additional appropriation will be required for the fi completion of the building and for machinery foundations, floor c tributing systems, roadways, and sidewalks, and the various auxilia features necessary to put the shop in operation.

Mr. Kelley. There was an appropriation for this last year as as this year. You have not started the work or let the contra

have you?

Admiral Gregory. That building was transferred from the Am We have got it there ready to put it up, but we can not do it w the foundation is made ready for the erection of the building. Mr. Kelley. This is an addition to the machine shop?

Admiral Gregory. It is an addition to the machine shop. Mr. Kelley. You will have to get the machine shop up be you build this addition?

Admiral Gregory. The original machine shop is there, and this an additional building for which \$200,000 was given last year.

Mr. Kelley. Has that been expended?

Mr. SMITH. \$45,000 of it has been allotted, but not expended. The hundred and fifty-five dollars of it has not yet been allotted, ut is about to be allotted toward the completion of the building.

Mr. Kelley. \$45,000 of it has been allotted, but it has not been

xpended?

Mr. SMITH. No, sir; it has not been actually paid out.

Mr. Kelley. We can let that go until next year all right, can we ot?

Colonel ROOSEVELT. I am not prepared to say as to that, and I rant to put in a caveat. That is very important out there now.

Mr. Kelley. If these officers do not know enough about it to say hat it is urgent, I think it could be very well postponed. It appears hat they have allotted \$45,000, which they have not expended, and hat they have not allotted the rest of it. They have not expended my of it.

Colonel Roosevelt. Therefore, I am not prepared to say now. I

vant to go into it.

Note.—Investigation discloses the fact that machine tools sufficient to equip this ntire building are now available on the ground, having been transferred from War lepartment surplus stock. To secure the benefits of the whole installation, it is nly necessary that building operations be carried through to completion.

A further argument for continued prosecution of the work is afforded by the present tatus of the project. The foundations are progressing toward completion and the cel framing is straightened, painted, and ready to be erected under a contract lready let. Bids for the completion of the superstructure will be received in the amediate future. The department is strongly desirous of obtaining the benefits hich would accrue from the use of this shop, the necessity for which is in nowise iminished at this time. Construction is definitely under way, and steady prosecuon to completion as planned is unhesitatingly recommended.

ITEMIZED STATEMENT OF PROPOSED EXPENDITURE FOR ADDITION.

Admiral Gregory. I can give you the information as to how the

ppropriation of \$200,000 is to be spent.

The item of \$200,000 included in the Budget under the heading Addition to machine shop" will be required to cover the various ems necessary to complete the building for operation. A list of less items with approximate estimates of cost is given below:

loor (wood block on concrete base)	. \$70,000
achine tool foundations.	. 30,000
istributing system (air, water (including fire protection), electric (including	Q
Istributing system (air, water (including fire protection), electric (including inside power wiring and substation equipment), telephone)	. 70,000
stallation of cranes.	9,000
racks.	
Oads and walks.	

With the possible exception of a small margin for contingent fund, 1e \$300,000 appropriated in the naval appropriation acts of June 4, 20, and July 12, 1921, will have been expended in the preparation the materials for recrection, foundations for building, the erection steelwork, and the completion of the building proper. This 200,000 is not a new item, having been anticipated since the project moving and recrecting this building was undertaken. When estimetes were submitted for the fiscal year 1922, the bureau's estimate

for the completion of the building was \$400,000; \$200,000 of it was included in the appropriation act passed July 12, 1921, and the remaining \$200,000 is included in the Budget for the fiscal year 1923.

TRANSFER OF SURPLUS BUILDING FROM NICETOWN, PA., TO PEARL HARBOR,

By arranging for the transfer of the suitable War Department surplus building from Nicetown. Pa.. to Pearl Harbor, instead of constructing a new building, it is estimated that approximately \$250,000 will have been saved in the cost of the project.

Mr. Kelley. They asked \$400.000 for that work two or three years ago, and it goes without saying that you do not need \$400.000 now, because building materials and labor have declined enormously

since then.

Admiral Gregory. I understand that that has been taken into account by reason of the fact that the building was taken from Nicetown, Pa.

Mr. Kelley. It is quite apparent that this estimate has not been

revised in the light of the new conditions.

Admiral Gregory. We find, in connection with work done at Pearl Harbor, that you do not get the benefit of any great proportion of the fluctuations in costs that you get when you are nearer the market. The cost of work out there has not changed greatly.

Mr. Kelley. Is there not some way by which machinery could be transferred from some place on the Atlantic seaboard, where it is not to be used, and installed for use out there, without buying

new machinery!

TOOLS AND EQUIPMENT FOR BUILDING ADDITION.

Admiral Gregory. This does not include equipment or new

machinery.

Mr. Kelley. It amounts to the same thing, because you are not going to build a shop like that without providing tools and machiner. For instance, you might be able to move some machinery and tools that are not needed at the Philadelphia vard, where, during the war we constructed great buildings and filled them with tools of the most expensive kind. I suppose we spent \$35,000,000 or \$40,000,000 them for that purpose during the war.

Admiral Gregory. I think that is what the department does.

Mr. Kelley. Then, suppose we let this go, and let you huntaround and get tools and machinery from some of those places?

Admiral Gregory. But this is not for tools.

Mr. Keller. You provide for machinery and some other took

and it is all one thing.

Admiral Gregory. We could not devote this money to the purchase of tools.

Mr. Kelley. Could you not transfer machinery and tools from the Philadelphia Navy Yard to Pearl Harbor?

Admiral Gregory. But that does not provide the building.

Mr. Kelley. You will have the building.

Admiral Gregory. This is for the completion of the building that we are asking.

Mr. Kelley. You referred to a lot of tools in there. Suppose you read that again.

Admiral Gregory. It refers to foundations for tools.

Mr. Kelley. What else have you in there? Admiral Gregory. That is all there is in reference to tools.

Mr. Kelley. Where will you get the machinery and tools for this

Admiral Gregory. That does not come out of this appropriation. be Bureau of Engineering or the Bureau of Construction and Repair, occupying that shop, would undoubtedly have to get tools either om their special appropriations or by a transfer of tools and machiny from some other stations where they were not required.

Note.—All tools for equipping the machine shop are now at the station awaiting tallation.

Mr. Byrnes. As I understand it, you had an appropriation of **30,000** in 1920 for this purpose?

Admiral Gregory. Yes, sir; an appropriation for 1920.

Mr. Byrnes. And in 1921 you had an appropriation of \$200,000, ich, added to the appropriation of \$100,000 for 1920, made \$300,000. Admiral Gregory. Yes, sir.

ESTIMATED TOTAL COST OF ADDITION.

Ir. Byrnes. What was the estimate of the total cost of this lition to the machine shop?

Admiral Gregory. It was estimated to cost \$500,000.

Ir. Byrnes. There was an original estimate made on the addition the machine shop. You must have made some estimate in 1920. Admiral Gregory. It was \$400,000 to complete.

AMOUNT APPROPRIATED TO DATE.

Mr. Byrnes. How much of that total cost of \$400,000 has been oropriated?

Admiral Gregory. \$200,000.

Mr. Byrnes. Then, that \$200,000 you refer to is to be applied to it addition?

Admiral Gregory. Apparently this addition is an extension ich was not contemplated at the time the original estimate was

Mr. Byrnes. Then I do not understand it. There was an approation in 1920 for a machine shop or for an addition to a machine

Admiral Gregory. I will have to refer to the bill. You were

ing what was appropriated in 1920, and it was \$100,000.

Mr. Byrnes. For what purpose! I want the separate approprians for the original machine shop and the addition to the machine

Mr. Kelley. There was an item of \$100,000 in the appropriation I for the fiscal year 1921 to continue the machine shop, so they ist have had something before that.

Mr. Byrnes. Is that when you began to get appropriations for addition to the machine shop; that is, when you got \$100,000 in **30 }**

Commander Rouzer. Yes, sir.

Mr. Byrnes. Then you got an appropriation of \$200,000 in the : of July 12, 1921 ?

Commander ROUZER. Yes, sir.

Mr. Byrnes. You are asking \$200,000 additional?

Commander ROUZER. Yes, sir.

Mr. Byrnes. Making \$500,000 you are asking for the addition the machine shop?

Commander ROUZER. Yes, sir.

Mr. Byrnes. What is your estimate of the total cost of this add to the machine shop?

Commander ROUZER. \$500,000.

Mr. Byrnes. This is to complete that addition?

Commander ROUZER. I think there is a misunderstanding at the addition. It might be called an additional machine shop, is a building secured from the Army up near Philadelphia.

Mr. Kelley. When was it moved?

Commander ROUZER. The transfer was made without any to the Navy.

Mr. Kelley. When was it made?

Commander ROUZER. Just before the armistice.

Mr. Kelley. In 1918?

Commander ROUZER. Yes, sir.

Note.—Records show that this building was shipped to Pearl Harbor in 1920

Mr. Byrnes. That is what you call an addition to the mac shop?

Commander ROUZER. Yes, sir.

Mr. Byrnes. The \$100,000 was the first money applied to work?

Commander ROUZER. Yes, sir. This is a steel building 523 long and 180 feet wide.

Mr. Byrnes. Did you estimate in 1920 that, having moved building out there, it would cost \$500,000 to complete it?

Commander ROUZER. Yes, sir; a foundation had to be prov for the steel structure.

STATEMENT OF APPROPRIATIONS, COSTS, AND EXPENDITURES FOR ADDITION TO MAK

Mr. Byrnes. Of this \$300,000 you have already received.

much have you actually spent?

Colonel ROOSEVELT. Suppose we let the matter stand this until to-morrow. By to-morrow I will have it checked up to termine, (a) whether the estimate can be revised, in view of present conditions, cheaper costs, etc., and a cut made in any vand (b) whether the situation is urgent and why, or whethe should all be expended in this year or whether properly a cer proportion of it could be taken care of out of next year's appropriate

Mr. Kelley. We will be glad to have you do that.

NOTE.—As stated heretofore, the machine-shop building was secured from Army in 1920 without cost to the Navy other than transportation charges from States to Pearl Harbor.

The estimate of \$500,000 to complete the additional machine shop has been che and it is found that certain additional expense has been necessitated which we contemplated at the time original estimate was made. The expense of straight structural steel is greater than originally estimated, due to the fact that this sixe been rehandled so many times that the cost of straightening it at Pearl Harbor is a straightening in the cost of straightening is at the cost of straightening it at Pearl Harbor is a straightening in the cost of straightening is a straightening in the cost of straightening is a straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the cost of straightening is a straightening in the cost of straightening in the

0,000 more than was originally anticipated. It is also developed that much of the aterial which it was thought could be moved and reused was unfit for use. None the gypsum roofing material can be used. A further expense has been encountered furnishing missing parts of the building. An additional expense arose from the scessity of cutting and splicing some of the heavy members to permit of their being arried in the ship assigned for this purpose. These items of extra expense offset as a which might be anticipated as the result of increased efficiency of labor. o date, bids received from Hawaii do not show the same decrease in cost which has

The condition of the building at the present time is, the foundations are well under ay and the steel has been straightened and the contractor for the steel erection starting this work. Bids will be taken as quickly as they can be secured on the sofing and siding, and following this, if the building is to be made available, there ill immediately be required money for the floors for the crane erection, machine tool studentians distributing system tracks reads and walks which items are constituted. andations, distributing system, tracks, roads, and walks, which items are completed under the \$200,000, requested in the pending naval bill. All of this work in be completed during 1923, and unless money is made available for these items as station will be unable to use the building.

There is given below a detailed statement of appropriations already made and de-ed, together with estimates of cost of work under way and necessary to complete e project:

propriations:

>propriations: No. 232, subhead 76, act of June 4, 1920. No. 232, subhead 80, act of July 12, 1921. Proposed appropriation, fiscal year 1923.		200, 000. 00
Total		500, 000. 00
ITEMS OF WORK.		•
napleted: Furnishing missing parts of building Ider way: Straightening and painting structural steel of building (station labor)		
eady for bids: Completion of superstructure of building	125, 325. 00 165, 000. 00	
Total	70, 000. 00	295, 609. 76
tion: electric, including inside power wiring and sub- station equipment: telephone Installation of cranes. Tracks Roads and walks	70, 000. 00 9, 000. 00 8, 000. 00 10, 000. 00	
Totalntingent		197, 000. 00 7, 390. 24
Total estimated cost of project		500, 000. 00

ADDITIONAL STORAGE FACILITIES.

Mr. Kelley. For additional storage facilities you estimate You had \$200,000 for storage facilities last year. Have **65.000**. **>u** spent that?

Admiral Gregory. That is all obligated except about \$3,000.

Mr. Kelley. Have you spent it?

Admiral Gregory. It will all be expended this year.

Mr. Kelley. How much have you spent?

Admiral Gregory. All of it has been expended except \$3,000.

Mr. Kelley. The buildings are up?

Admiral Gregory. It is under contract.

Mr. Kelley. You want to put up an addition with this \$265,000 Admiral Gregory. They now need an additional storehouse, while is the one covered by this estimate.

Mr. Kelley. Tell us about that.

Admiral Gregory. There is at present but one general storehome containing about 80,000 square feet of floor space, and the preselack of storage space is one of the greatest weaknesses of the yard

Mr. Kelley. This is a new building?

Admiral GREGORY. Yes, sir; a new building.

Mr. Kelley. We had as well stop right there, then.

Admiral Gregory. It is for the storage of things now largely kept in the open.

Mr. Kelley. We do not have authority to build new building Mr. Oliver. Where are the things you now speak of that new

storage space !

Admiral GREGORY. They are right at the station. I do not know just what quantity, because I have not seen it, but it is reported me that they have a large amount of stuff stored in the open.

Mr. Kelley. You might tell us why this is necessary.

Admiral Gregory. There is included a one-story storehome building, which is a separate building, costing \$200,000, and a addition to the paint and oil storehouse costing \$65,000. There are two items included. This addition to the oil and paint storehome is estimated to cost \$65,000.

Mr. Kelley. Why do you need that addition?

Admiral Gregory. That is material which I understand is the open now. The paint is in cans, and there are other materials that kind.

Mr. Kelley. How much addition will you build?

Admiral Gregory. We have the plans of that, but I can not put my hands on them.

Mr. Kelley. I suppose it is to be constructed of cement and steel

Admiral Gregory. It is to be a fireproof building.

Mr. Kelley. A one-story building?

Admiral Gregory. I think it is a one-story building. I can give you the details of that.

Mr. Kelley. The material to be stored is now in open storage!

Admiral Gregory. Yes, sir.

Mr. Kelley. What do you need the \$200,000 for?

STORAGE SITUATION OF PEARL HARBOR.

Admiral Gregory. That is a separate building. I have been tying to find out the nature of the stores they have had in there. I did not find out. I will have to give you that information in morning.

Mr. Kelley. You may put in the record at this point a complet statement showing the character of the building you intend to build if this money is provided, and the necessity for the additional strage, and you may also state how you are handling that storage not

Admiral Gregory. I will do so.

NOTE.—The storage situation at the naval station, Pearl Harbor, is very available storehouses are congested and a considerable amount of material is in the open. On the basis of studies made in the past two years, the station and is Bureau of Supplies and Accounts have urgently recommended extension to all

storage facilities, including those for general stores, metals, lumber, boats, comtibles, provisions, and clothing, at an estimated cost of over \$2,000,000. It is sidered that the most urgent of these needs are for a one-story building, with crane rice similar to that now being constructed under the \$200,000 provided in last r's act, which will provide for the storage of heavy industrial material, spare parts, thinery, stores turned in or assembled for vessels, surveyed material, etc., and an addition to the paint and oil storehouse. The one-story storehouse contemted will be 120 by 500 feet and will be provided with a 10-ton crane to handle the vy material. The addition to the paint and oil storehouse contemplated is a one-y building of fireproof construction, 43 by 243 feet. The estimated cost of the one-y general storehouse is \$200,000, and of the additional paint and oil storehouse, 000.

WATER SUPPLY EXTENSION.

Mr. Kelley. You have an estimate of \$153,000 for water supply tension. What about that?

Admiral Gregory. That is a very important proposition for the arl Harbor station. The present Army water supply is from a well Fort Shafter, and the Navy has been utilizing a water system in lich the water is brought from wells several miles away from the vy yard, and, with the growth of the naval station and the growth the Army post, it is found that at the present time the water supply not sufficient for the station's needs. They have had a joint board officers on the station, including both Army and Navy officers, d they have decided upon a plan of development. They have cided that the part of the estimated cost for which the Navy should k is \$153,000. The War Department is also carrying a part of the st under its estimates, which will be submitted by them in due urse of time, probably during the spring. We are therefore asking the part which falls upon the Navy, or \$153,000, and this work in be prosecuted without regard to work to be done by the Army, nich work is contemplated to be done later.

PRESENT WATER SUPPLY SYSTEM.

Mr. Kelley. I think I have heard some reference to this project fore. Is the water brought from some considerable distance? Admiral Gregory. Yes, sir; it is brought from wells at Moanalua, considerable distance away, 4 miles, approximately.

Mr. Kelley. The pipes are in, are they not?

Admiral Gregory. No, sir; they are in a part of the way, but we e not getting water at the present time from the source to which ey expect to extend the mains. This is to be a new series of wells at they will put the pipes into.

Mr. Kelley. This simply involves taking up the old piping and

locating it!

Admiral Gregory. No, sir: I understand that the old pipe will main where it is. This will be an additional system, or a system pplementary to the old system. In fact, we could not take up the d pipe until the new was installed, in any event.

Mr. Kelley. Is there any real shortage of water?

Admiral Gregory. Since we have had the increased number of ips out there the demand has been so heavy that they have had to not in order to conserve their water supply, and they do not have ater enough.

Mr. Kelley. Commander Rouzer, have you any special recollec-

on about this!

Commander ROUZER. Yes, sir; this item was put in last year, and I remember that it was discussed. We asked, I think, for \$165,000, and the Army was to insert a similar amount in their bill, but, at recall it, that was not done by the Army.

Mr. Kelley. Have they done it this year?

Commander ROUZER. My understanding is that the Army estimate has been submitted.

Mr. Kelley. Is any provision made for this in the Army bill, Mr.

Mr. Byrnes. You cannot tell about that. There was an estimate of \$42,000,000 in lump sum, and that estimate was cut to \$27,000,000 Therefore, \$15,000,000 will have to be taken by the committee. It will depend upon their allotment of the away from some items.

\$27,000,000, I presume.

Mr. Kelley. This proposition is for bringing water from some springs, and it is not any harbor proposition at all. It is for bringing drinking water and water for the vessels and for the Army post out there, and it is my understanding that they have not included anything at all for that in the Army Bill. Is this the Ku Tree Reservor

Commander Rouzer. No, sir. This project is to bring water from

the Aiea wells.

Mr. Kelley. I understand that the only estimate they had involved a water supply from the Ku Tree Reservoir project, and that was eliminated by the committee. As I understand it, there was no estimate at all for this water supply, or for their share of it.

Commander ROUZER. This would have been an additional esti-

mate, or a supplemental estimate, because the water supply was not

included in the original Army estimates.

Mr. Kelley. This piping would have to be laid clear back to the springs!

Commander Rouzer. Yes, sir.

Mr. Kelley. To supply the naval station and the Army post, and, of course, the Army would have to join with the Navy in doing that Admiral Gregory. I can read you a description of the work that is outlined.

Mr. Kelley. Just give us the salient points.

Admiral Gregory. In brief, the general project provides for an increase of a million and a half gallons daily at the naval station. The need for this increase is immediate. This project covers the driving of three 12-inch artesian wells on the Aiea Military Reservation, that is now owned by the Government, with a 12-inch highpressure delivery line across the naval magazine grounds direct to the Pearl Harbor Naval Station, at which point connection will be made with the line supplying water to Ford Island and Fort Kame hameha.

COST OF EXTENSION AND MILES OF PIPE TO BE USED.

Mr. Kelley. Suppose you insert in the hearings at this point a rather concise statement of the cost of the project, showing the number of miles of pipe or feet of pipe required, and any other information that will be useful in determining what we will do with it.

Admiral Gregory. I have all of that information here except as the miles of pipe. The estimated cost of the whole project is 6,000.

OTE.—The length of pipe line is approximately 3½ miles.

Ir. Kelley. I am inclined to think that you will find that the ny has not asked for anything for this purpose at all, and that you

going ahead with one hand tied behind you.

Admiral Gregory. The Navy's part of this is thirteen-eighteenths, \$193,000, and, as we have \$40,000 available, the amount necessary secure is \$153,000. It is likely also that we can make use of some e at Hampton Roads not in use, and if we have any material on 1d that we can use, we propose to use it.

BLOCKING FOR DRY DOCK NO. 1.

Ir. Kelley. You ask \$25,000 for blocking for Dry Dock No. 1.

at do you have to say about that?

Admiral GREGORY. It appears that the blocking of the dry dock tot sufficient to take modern battleships, and we have found in the t few years in all of our docks that we have had to increase the ount of blocking to provide for the larger ships.

Ir. Kelley. Are these what they call keel blocks?

Admiral GREGORY. They are keel blocks, bilge blocks, and bilge ck slides. Up to within recent years the spacing of dry dock cking has been 4 feet center to center, but it is now found that h the large ships we are building we have to provide blocking on pot centers. So additional blocking is necessary in all these ks to make them suitable for the heavier ships we now have dock.

Ir. Kelley. You will have plenty of blocks on the Atlantic coast

er you discontinue all of this building program.

Admiral GREGORY. It is not the same kind of block they use in building work; that is soft wood, while what we have to use in a dock block is white oak; it is very rare and very difficult to find, well as very expensive.

Ir. Kelley. You will have plenty of blocking at the Philadelphia

 $^{\circ}\mathbf{d}$.

Admiral Gregory. I do not know of anything that we would want take. Blocking is something you may need on short notice, and en a ship has to be docked you must have the blocking there, and ou take the blocking away from the Philadelphia yard you might well say that dry dock is closed for all work. It is a very essential t of the equipment of a dock and you must have the blocking re and available for use when required.

Ir. OLIVER. What is the estimate for that?

Admiral Gregory. \$25,000.

Commander ROUZER. The original estimate was \$125,000. The mate as submitted by the station was \$125,000, but it was cut by department because it was felt we could get along by the addition certain keel blocks.

Ir. Kelley. You have considered the question of transferring

cks, I suppose, from the Atlantic over there?

Admiral GREGORY. There are none available on the east coast that be shifted.

4r. Kelley. Nearly all of your heavy ships will be in the Pacific ? 94363—22—50

Admiral Gregory. Not all of them; some of the older battlesl are still on the east coast and they require docking just the same the newer ones. The fact is we are in the market to-day for a tional blocking for the dry docks at Boston and at Norfolk in or to modernize those docks.

Mr. Kelley. You are in the market for what?

Admiral Gregory. For white oak material; we are going thro the purchase of that at the present time. Those two docks are up to date in regard to the blocking equipment.

Mr. OLIVER. What about the durability of your blocks after

procure them?

Admiral Gregory. Well, as a general thing those blocks will

from 10 to 15 years—oak blocks.

Mr. Oliver. Were not all of these docks equipped with blocks.

during the war?

Admiral Gregory. No, sir; both the Norfolk dock and the Bo dock are practically new docks.

Mr. OLIVER. These are the two new docks?

Admiral Gregory. Yes, sir; the Commonwealth Dock at Bo and the last dock at Norfolk.

Mr. Kelley. I have some recollection of an appropriation blocks last year. Were they for the Commonwealth Dock or for on the Pacific coast?

Commander ROUZER. For Puget Sound.

Mr. Kelley. Where did you get the money with which to blocks for the Boston yard?

Admiral Gregory. For the South Boston dock there is still available balance from the \$5,000,000 which was appropriated purchasing and equipping the dock purchased from the Comp wealth of Massachusetts.

Mr. Kelley. How much of a balance is left?

Admiral Gregory. There is a very small amount; it is almost g Commander Rouzer. \$16,000.

Mr. Kelley. Where do you get the money to buy blocks for Norfolk dock?

Admiral Gregory. There was a special appropriation for the dock at Norfolk.

Mr. Kelley. Have you any balance? Admiral Gregory. Yes, sir.

Mr. Kelley. How much is left in that fund?

Admiral Gregory. Our records show there is about \$11,000 Mr. Kelley. How much is left in the Pearl Harbor dock ar priation?

Admiral Gregory. I think that has all been closed out. Commander Rouzer. That dock was completed in 1919.

PAVING, GRADING, AND RAILROAD EXTENSION.

Mr. Kelley. Paving, grading, and railroad extension, \$38 What about that?

Admiral Gregory. That is an item submitted by the station the placing of paving on new areas that have been graded and fo continuation of the grading and for railroads which they need the new areas. They submitted that report with the statement it is exceedingly important that the work be done. The partic

eds with regard to road work are road Central Avenue to Fourth reet, road back of 1910 Wharf, extension of First Street to Central renue, and roads around new shops.

Mr. Kelley. How much is for paving?

Admiral Gregory. It is not divided; it is all in one item of 3,000.

Mr. Kelley. You do not know how much is for paving, how much grading, or for railroad extension?

Admiral Gregory. They have not divided the amounts.

Mr. Kelley. How much railroad extension are you going to make? Admiral Gregory. They asked for \$75,000, but that has been cut the budget officer of the Navy already, thinking that it was hardly visable to ask for more than \$38,000, so we could not check the 8,000 with the original estimate from the yard, anyway. ve deliberately cut it in half over the estimate submitted by the

Mr. Kelley. You do not know how much paving, grading, or

w much railroad extension is provided for?

Admiral Gregory. We would have to tell them to recommend in at way they could use the \$38,000 to best advantage, and I think ought to be put up to the station as to how they could best use it, view of the fact that we are cutting in two the estimate submitted the station.

Mr. Kelley. When they submitted their estimate did they not

Admiral Gregory. It was not itemized.

Mr. Kelley. That is not a very good way to get appropriations. Mr. Byrnes. You mean there is nothing to indicate how much of at is to be spent for paving?

Admiral GREGORY. I find a note here to the effect that the railroad ork alone is estimated at \$38,000, so that would leave the balance

it for the grading and paving. Mr. Byrnes. \$37,000?

Admiral Gregory. Yes, sir; it would appear that \$38,000 is their timate for the railroad work. The department has cut the station's timate from \$75,000 to \$38,000, so presumably they are limiting at to the railroad work alone, and it could be called railroad extenon if you chose.

Mr. Kelley. \$38,000 is just for the track and ties? Admiral Gregory. And whatever is to be done in building it. Mr. Kelley. You do not know how many miles are to be built? Admiral Gregory. No, sir. I will insert information in detail as the work contemplated under the \$38,000.

Pearl Harbor, paving, grading, and railroad extension.

Road to Puloa station, 1,500 by 22 feet, at \$3 square yard	\$11, 100
Railroad connection to new machine shop, 1,700 feet, at \$4 per linear foot	6, 800
Roads around and to machine shop and acetylene plant, 2,110 by 20 feet,	•
at \$3 square yard	14, 100
Railroad connection to one-story storehouse, 1,500 feet, at \$4 per linear	
foot	6,000
-	
Total	38,000

NAVAL STATION, TUTUILA, SAMOA.

Mr. Kelley. For a wharf at the Tutuila (Samoa) Naval St.

you ask \$12,000. What about that?

Admiral Gregory. The reason for that is that that wharf is tically on its last legs: it needs rebuilding in order to make it sat

Mr. Kelley. What if it did go out? Admiral Gregory. Then you would have no landing place a

Mr. Kelley. Who lands there?

Admiral Gregory. It is the only wharf they have for the u the station.

Mr. Kelley. How much of a station have you there?

Admiral Gregory. It is a small place; it is not a large station Mr. Kelley. How many people have we there?

Admiral Gregory. Thirteen officers and seventy-seven enl

Mr. Kelley. Do you not think we had better let that whar Admiral Gregory. It will have to come up again next year if postpone it now.

Mr. Kelley. Have you ever asked for this before? Admiral Gregory. I understand it was up last year.

Mr. Kelley. For the first time? Admiral Gregory. Yes, sir.

Mr. Kelley. I think you ought to ask for these things at three times.

Admiral Gregory. But it is hard to save our faces, especia the thing falls down in the meantime, and I understand this is ir condition.

Mr. Kelley. Does not the treaty require that the developm at all these places remain just as they are and that we shall d more work :

Admiral Gregory. It prevents us from making extensions ordinary renewals and repairs are not excepted.

Mr. Kelley. How long a wharf is it?

Admiral Gregory. This wharf is 290 feet in length. that was built in the late nineties; it has a cast iron pier and for tion and wooden deck; it is the deck that needs renewal at the pr time.

Mr. Kelley. And it will cost \$12,000?

Admiral Gregory. For the whole business; ves, sir.

NAVAL STATION, GUAM.

DEVELOPMENT OF SUBMARINE AND DESTROYER BASE.

Mr. Kelley. Toward the development of a submarine and destr base, including the purchase of land, at the naval station. Gi you want \$200,000.

Admiral Gregory. Well, I can not put up any argument for t

NAVAL STATION, CAVITE, P. I.

ORDNANCE STORAGE AND WATER-FRONT IMPROVEMENTS.

Ir. Kelley. For the naval station, Cavite, P. I., you want 5,000 for ordnance storage, and \$48,000 for water-front improve-

dmiral Gregory. I think the ordnance storage is in violation of treaty, but I understand the water-front improvements represent pair; that is, the rebuilding of the wharf. It has been recomded in several estimates heretofore: I do not know but what it been recommended fully three times.

r. Kelley. Improvements on a little front like this can come of your general fund. You can find enough to keep them from g to pieces, as well as the one at Samoa.

dmiral Gregory. I do not think so.

r. Kelley. Why do you want to make specific appropriations small items like that and carry several millions in a lump sum? dmiral Gregory. The trouble is that these items are far larger, icularly this one at Cavite, then we ordinarily allot out of our p-sum appropriation and, furthermore, the lump-sum appropriatis less than half what it ought to be. So that is why we do not we can take this out of the appropriation for maintenance.

r. Kelley. What is your limit?

dmiral Gregory. We have no stated limit for the reason that it lepends on the urgency of the case. I am trying to think of the est item I recall, and I think it was something in the neighborl of \$60,000 for repairing the floating dock at Portsmouth years

r. Kelley. That is unusual, is it not?

dmiral Gregory. That was very unusual, and that was on acit of a particular emergency.

r. Kelley. The lump sum is supposed to be a general repair and

ntenance fund.

dmiral Gregory. All things that are routine in nature or all gs that we can not anticipate in advance, but it is our custom to e to you in cases like this, where we know in advance that certain irs are to be made, and put them down specifically.

r. Kelley. These water-front improvements are not new affairs?

dmiral Gregory. No.

r. Kelley. They are just repair propositions?

Imiral Gregory. Yes; and it is rebuilding in this particular , and this is made all the more essential by reason of the fact fron now on the activities in the Philippines will be confined at te. Olongapo having been closed down, so that it is necessary eep Cavite up to its full capacity.

COST OF WATER-FRONT IMPROVEMENTS.

r. Kelley. What are you going to do with this \$48,000? dmiral Gregory. Practically rebuild the entire wharf.

r. Kelley. How large a wharf is it?

dmiral Gregory. Two hundred and seventy-eight by forty feet. r. Kelley. It is a timber wharf, is it?

dmiral Gregory. It is on timber piles and it has a timber deck.

Mr. Kelley. You are satisfied it will take \$48,000 to do t work?

Admiral Gregory. Yes, sir; that would be the cost with creese timber construction.

NAVAL STATION, OLONGAPO, P. I.

Mr. Kelley. You say you have abandoned Olongapo?

Admiral Gregory. I want to get in the statement that it has b reported that this pier is beyond the condition of ordinary repair that it needs entire rebuilding.

Mr. Kelley. You mean the one about which we have just b

talking?

Admiral Gregory. Yes, sir.

Mr. Kelley. And I understand everything comes out of Olonga

REQUESTED TRANSFER OF OLONGAPO ESTIMATES TO CAVITE.

Admiral Gregory. It comes out as Olongapo, but it is the de and I think you have a communication from the department questing, that these two items be transferred to Cavite. One is item of \$45,000 for pontoon and one is an item of \$55,000 for por plant improvements. There is on file a request from the departs to have these items transferred to Cavite on account of their m there.

Mr. Kelley. I have not had any notice of that.

Mr. Smith. The letter dated February 2, 1922, was directed to Director of the Budget.

FEBRUARY 2, 19.

Sir: Subsequent to the preparation of the Budget for 1923 an order was issue me that all industrial activities at the naval station. Clongapo, be curtailed and the station be closed except for necessary caretakers, and all work in connection repairs to vessels conducted at the naval station, Cavite. This action makes it a sary for the appropriations estimated for under the appropriation title "Navalsa Olongapo, P. I., to be made. Owing, however, to the increased activities a na all station, Cavite, it is considered of the utmost importance that the funds mated for the na all station, Clongapo, be appropriated for expenditure at Cavity. mated for the na al station. Glongapo, be appropriated for expenditure at Ca
The estimate of \$45,000 for a pontoon contemplates the construction from maten
hand of a steel pontoon for a 20-ton floating derrick now located at Clongapo to re
a wooden pontoon which was condemned by survey in October, 1920. The si
structure and machinery of the derrick are in good condition. The use of this de
results in large satings of time and money in the handling of heavy weights as
as at olds the danger of accident by the use of improvised weight-handling der
The \$55,000 estimated for power-plant improvements at Olongapo is require
expenditure at Cavite for the installation of turbo-generators, water-tube by switch oard and a set of electrolytic lighting arresters which were obtained from Department surplus stock and delivered to the naval station, Cavite, for installa and for motor generators or rotary converters to change the current from alternation direct in order to utilize the product with the present station system which is designed the use of direct current. The present Cavite plant is made up mostly of second hand machinery sent to the station sometime ago, which is now in bad condition in need of constant repairs.

It is, therefore, argently requested that the necessary steps be taken to have on from the appropriation bill the two items under the appropriation title "Naval su Olongapo, P. I.." and to have the same inserted under the appropriation title "I station, Carite, P. I."

The foregoing change involves no increase in the total amount of the Budge the Naval Establishment.

Respectfully yours,

EDWIN DEN

The Director of the Bureau of the Budget, Washington, D. C. Mr. Kelley. He did not communicate it to us. What is a pon-

Admiral Gregory. The pontoon is the floating structure upon lich this derrick is constructed and it is used for handling heavy lights; it is a floating crane; the pontoon is the base structure, the ating structure. The superstructure itself, the crane, has been livered and is on hand; the material for the pontoon itself is out ere. It is really the purpose to have this pontoon and the crane t together and then after completion it will be towed to Cavite d used there, it being a floating structure.

TREATY AFFECTING SOUTH SEA NAVAL BASES.

Mr. Kelley. Under the terms of the treaty are we authorized to this?

Admiral Gregory. I do not think that this is anything which is minated by the treaty; it is simply a weight-handling appliance d has nothing to do with the defenses or supplies.

d has nothing to do with the defenses or supplies.

Mr. Kelley. You think we could put in all the new equipment we

ant at any of these places?

Admiral Gregory. It would not permit all the new equipment would like to have, but I think it would permit this equipment. Mr. Kelley. I will read this from the treaty:

The maintenance of the status quo under the foregoing provisions implies that no w fortifications or naval bases shall be established in the territories and possessions ecified; that no measures shall be taken to increase the existing naval facilities the repair and maintenance of naval forces, and that no increase shall be made the coast defenses of the territories and possessions above specified.

How about that, Admiral?

Admiral Gregory. This was work that was practically begun some ne ago, and it is not a new item; it is the renewal of pontoon for floating derrick which was authorized in previous years. I can fer to the act of June 29, 1906, if you have it here.

Mr. Kelley. This is also provided:

This restriction, however, does not preclude such repair and replacement of wornt weapons and equipment as is customary in naval and military establishments time of peace.

PONTOON AT CAVITE AND OLONGAPO.

Did you have a pontoon at Cavite?

Admiral Gregory. Yes; we have had a wooden pontoon there, hich was surveyed and condemned in 1920. They started the conruction of a steel pontoon at Olongapo some time ago, but the projet was never completed, and this is really to complete a project hich was authorized some time ago.

Mr. Kelley. You have a power plant at Cavite, have you not?

POWER PLANT AT CAVITE.

Admiral Gregory. There is a small power plant there, but even hen the plant was installed second-hand machinery was used, and is now practically on its last legs. It is our desire to have renewals the generators and engines that have been worn out; so it is rejected to have the item transferred from Olongapo to Cavite.

Mr. Kenney. I do not know whether that would be a violation if the treaty or note probably not.

Admira, Grecory, I do not think it would.

DATA RESPECTING POWER SLANT.

Mr. Kenney. It is a replacement of worn-out machinery the in of which you have had before t

Admiral Gregory. There are renewals and replacements. The are some transformers and a rotary converter required there for a reason that we are changing from a direct current to an alternation current plant. All alternating current equipment except air corresponds at Cavite.

CAVITE.

PARSENT.

FROPUSED.

Installation worn out . Four 196-kilowatt eninne generators practically junk, worn out . one 200-kilowatt engine generator obsolete and inefficient : total, 600 knowatts direct current.

Five 89-horsepower Scotch marine hollers and one 150-horsepower B. & W. holler: total, 550 horsepower -worn out, and very inefficient; maintenance unusually high.

One 1,200 c. f. m. air compressor (very poor condition, obsolete, worn out).

Replacement all equipment exist air compressor now at Cavite: Obtains by transfer. One 500-kilowatt tests alternator with 300-kilowatt retary exters and transformers for supply necessary direct current; total, 500 kilowatt alternating current and 300 kilowatt direct current.

One 500-horsepower Heine water-tike boiler obtained by transfer.

One new 1,200 c. f. m. air compress:

Estimated cost.

Building changes for equipment	\$10,	(186)	H
Removal of old equipment	4.1		
Installation turbo alternater (transferred)	2,	(O	١,
Installation rotary converter stransferred	- 1	ö)
Installation one 500-horsepower boiler (transferred)	6.	(01)
Purchase and installation one 1,200 c. f. m. air compresser.	10,	000	H
Purchase and installation 2 condensers, with pumps		(0)	١
Purchase and installation piping.	3.	001)
Relocation and installation flushing pump now in old submarine base power plant in C. P. P.		509	
Electric wiring and installation existing switchboard panels	3.0	QÚÐ) (
Instruments			
-			•

Mr. Kelley. You see, if we go into this and set a precedent that is in violation of the treaty right away, it is very simple, then, for other nations, similarly situated, to say, "You built a bigger power plant at Cavite; you put a pontoon out there, new cranes, and everything, and we are only doing just what you have done." So probably we had better leave this situation in the Philippines until things clear up a little.

URGENCY OF REPLACING CAVITE POWER PLANT AND PONTOON.

Admiral Gregory. What I greatly fear is that if we do not get se you are going to have a station without any means of getting y light or power whatsoever and that is a serious situation. •uld not like to face that situation.

Mr. Kelley. That is, if you do not do it within a reasonable

me ?

Admiral Gregory. Yes. The condition, while not anything like serious as at Mare Island—the condition we were describing this >rning—is a serious condition.

Mr. Kelley. We have not had any estimate for making these

provements at Cavite.

Admiral Gregory. I think one reason, in regard to the pontoon, that they have been assembling material heretofore, and it is now ady to be assembled, and in regard to the plant at Cavite it is cause of the additional load put upon that plant by reason of the sing of Olongapo. The matter becomes urgent for Cavite, because retofore Olongapo has really been considered superior to Cavite, d was superior as a naval station, but by reason of its being outside the Army defenses it was decided by the Navy Department that would not be feasible to keep it running; consequently we are transring everything to Cavite, which is really not equipped to do the rk. and that is why we want the appropriation transferred to put at station in decent shape

ABANDONMENT OF OLONGAPO AS NAVAL BASE,

Mr. Kelley. Have you power plant facilities at Olongapo? Admiral Gregory. We have some power plant facilities. timate was originally put in for the renewal at Olongapo, but now are not going to have anything at Olongapo at all.

Mr. Kelley. You might change your mind about that and go back

Olongapo.

Admiral Gregory. If we did, then we would need the money for ongapo: the renewal is needed no matter which place is kept, but der the treaty we could not reopen Olongapo.

Mr. Kelley. What ships are out there?

Admiral Gregory. I can not tell you the names of the ships that e out there, but it is the Asiatic Fleet under Admiral Strauss, and e fleet bases at that station.

NAVAL AMMUNITION DEPOT, IONA ISLAND, N. Y.

REPAIRS TO SOUTH DOCK.

Mr. Kelley. You are asking \$15,000 for repairs to the south dock the naval ammunition depot, Iona Island, N. Y. What has ppened to the dock there?

Admiral Gregory. That is a dock which has worn out in long rvice, and it is represented to me by the Bureau of Ordnance that at is a repair it is necessary to make.

Mr. Kelley. How much of a dock is this?

Admiral Gregory. It is a dock that is 300 feet long and about 25 et wide. It has been reported in the annual inspection as being in poor condition and that its repair, on the basis just mentione necessary.

Mr. Kelley. What will a dock like that cost new?

Admiral Gregory. That amount is practically for an entirely dock.

Mr. Kelley. Why do you not repair it out of the other fund let it go this year! These are pretty hard times, Admiral.

Admiral Gregory. We also have hard conditions to meet.

Mr. Kelley. Is it so bad you could not repair it at small cost Admiral Gregory. It has been reported to me, through the reau of Ordnance, that the dock is one that is needed so constant that it is necessary to keep it in safe condition and that they thinlought to be repaired.

Mr. Kelley. They must have another dock there if they are go

to rebuild this one.

Admiral Gregory. There is another dock called the north dock Mr. Kelley. There must be another one there, because this see "Repairs to South Dock." There must be a north dock, an east, a west dock. I suppose in due course you will visit most of the public works, will you not, Admiral?

Admiral Gregory. I hope to visit them in order to find out t

urgency for all of these things.

Mr. Kelley. Do you not think most of these can well go over u

you have had time to inspect the necessities at each place?

Admiral Gregory. I understand that in the preparation of the estimates that idea has been kept uppermost. In the first place, structions were given to confine recommendations to those things the were considered immediately urgent; then the Navy Department, the preparation of its budget, went over all of these items again, a from its point of view cut them very seriously, so that they have a gotten to the point where I have reason to believe there is not a corequested but what is really needed.

Mr. Kelley. That is a bad frame of mind to get into. The probably is not anybody in the Navy Department now who knows

their own knowledge whether these are needed or not.

Admiral GREGORY. Well, when you have a report that 50 per coff the piles of a certain pier have rotted through, as I just note the report on this structure, I can realize without looking at structure that it is in pretty serious condition.

Mr. Kelley. But you have not seen it?

Admiral Gregory. No. sir.

Mr. Kelley. And you have not seen it, Colonel Roosevelt. naval ammunition depot at Iona Island, N. Y., where they w \$15,000 for repairs to south dock?

Colonel ROOSEVELT. No; but we will be able to find in the Ni Department some one who has seen it, and I believe the admiral

a direct report.

Mr. Kelley. We have the report but, of course, the officers me rally went to see the defects and the question might be whether should be rebuilt or merely repaired. They are asking for an amount which will practically rebuild the dock, \$15,000.

Colonel ROOSEVELT. I believe we have in the department off who have been to these various stations in almost every instairly recently, and they are consulted about these matters. Ic

not give you this particular thing from my own knowledge, and, of course, never are we able, in making up our estimates, to have each particular place inspected by officers who will appear before you, because we are such a widely flung organization.

Admiral Gregory. I might also say this, that when an officer who is a technical officer, a civil engineer, reports to the bureau, as he has reported here, that the dock is in such poor condition that unless it is put out of commission and repairs made in a few months it will nave to be declared unsafe and impossible of use, I would rather take us view-

Mr. Kelley (interposing). It hardly seems possible for it to get

hat way in a year.

Admiral Gregory. It has not; it has been built for a great many

Mr. Kelley. But your predecessor never made any such report s that?

Admiral Gregory. It was reported last fall and has just come to As I started to say, I would accept a report from an engineer s of more value than the reports of a hundred nontechnical officers Tho may have seen the thing.

NAVAL AMMUNITION DEPOT, LAKE DENMARK, N. J.

STANDPIPE AND ADDITION TO WATER MAIN.

Mr. Kelley. For the naval ammunition depot at Lake Denmark, ▼. J., you are asking \$5,000 for addition to water main and \$21,000 or standpipe. What is the matter with the water supply at Lake Denmark?

Admiral Gregory. That is a question of fire protection. There Las been quite an extension of the plant at the ammunition depot Ind this is for the purpose of increasing the fire protection of that

Mr. Kelley. How much of an extension has been made there?

Admiral Gregory. The project consists of approximately 2,000 eet of 4-inch cast-iron water pipe with four hydrants, and the >uilding of a standpipe.

Mr. Kelley. I say, what improvements have been made there in

he way of increasing the depot facilities?
Admiral Gregory. They have built from time to time additional torage places for explosives.

Mr. Kelley. Did you build something there last year? Admiral Gregory. I think not last year, but during the war, and hey did not provide the necessary fire protection for it at the time t was built.

Mr. Kelley. How do you happen to be making improvements or the Bureau of Ordnance? I thought they attended to all their own affairs?

Admiral Gregory. On public-works construction, I think that we are going to have more of a hand in that hereafter than before.

Mr. Kelley. Where do they get the money for repairs? Admiral Gregory. They have an appropriation.

REASONS FOR BUREAU OF YARDS AND DOCKS DOING MAJOR REPAIRS.

Mr. Kelley. Ordnance and Ordnance Stores takes care of the

repairs?

Admiral Gregory. Yes, sir. This is one item that they do not contemplate spending their appropriation for and it should be considered somewhat in the same light as Maintenance. Yards and Dock.

Mr. Kelley. If they can build an armor plant at Charleston. W. Va., costing twenty-two or twenty-three million dollars, they ought not to have much trouble about a little thing like this.

Admiral Gregory. My impression is that they had a special

appropriation.

Mr. Kelley. No: they never had a special appropriation.

Admiral Gregory. That was in war time, when there were large appropriations for general purposes.

Mr. Kelley. The same laws are on the statute books now that we

had then, except what changes we made last year.

Admiral Gregory. I think this shows a very healthy condition.

Mr. Kelley. I do not think that follows at all. They are simply getting the money out of both places. They either ought to make all the repairs or you ought to make them. I have understood always that the ordnance people did not want your people around them, did not want them around ordnance ammunition, and did not want ordinary workmen about these places. That is the reason they put up for making their own repairs. We do not like to have this mixed up. We must have either one policy or the other. Otherwise, we can not tell whether to allow each specific sum or not.

Admiral GREGORY. I would strongly advise putting that in. The only result will be that it will divide the work among the individual bureaus instead of concentrating the work under the Bureau of

Yards and Docks, which I think should be the case.

Mr. Kelley. You think when it is new construction you should do it!

Admiral Gregory. I think that we should handle the new construction as well as any major repairs.

Mr. Kelley. What do you say. Colonel?

Colonel Roosevelt. I know in some instances your general statement of the case is accurate as to the past situation. They have done work of their own, but in general there is no question but that Yards and Docks should do the new construction work and the major repairs. The debate has centered around what are major and minor repairs. Unquestionably certain things have been slipped in occasionally where an extension was considered as a repair. With the Bureau of Yards and Docks functioning, it ought to unite all of the new work.

Mr. Kelley. But in the case of repairs you think the Bureau d

Ordnance should do the work?

Colonel ROOSEVELT. That is a horse of a different color. It depends on the size of the repair.

AMMUNITION DEPOT, FORT LAFAYETTE, N. Y.

MAGAZINE ROOF.

Mr. Kelley. The next item is "Ammunition depot, Fort Lafayotte, N. Y., magazine roof, \$10,000." That naturally does not come

Admiral Gregory. I think so, sir. I consider that a major repair. Ve all read only recently of a roof in this city collapsing because it as not properly built. When you come to structures such as maganes, you certainly should have roofs which will not fall in.

Mr. Kelley. Magazines are generally little one-story shacks?

Admiral Gregory. This is a pretty good roof.

Mr. Kelley. Up there they used to build them out of stone until Now they build them out of light material.

Admiral Gregory. I would like for you to take a glance at the plan

that building. You will see how complicated it is. It is a big uilding. A roof to go over a building like that is not a minor repair.

Mr. Kelley. Where is it?

Admiral Gregory. At Fort Lafayette.

CONDITION OF PRESENT ROOF AND MAGAZINE.

Mr. Kelley. What is the matter with the roof now?

Admiral Gregory. It is leaking. It will have to have new framing alls and a new roof surface.

Mr. Kelley. That seems to be quite a building?

Admiral Gregory. It is.

Mr. Kelley. What are the sides of the building?

Admiral Gregory. The sides are of masonry construction.

Mr. Kelley. An explosion there would kill everybody within a asonable distance on account of the flying stone?

Admiral Gregory. I would not want to be near it.

Mr. French. Is the whole space covered over or is that a large

Admiral Gregory. It is a court. That [indicating] is a section arough one of the side walls.

Mr. Kelley. Is it an old building?

Admiral Gregory. Yes, sir.

Mr. Kelley. I should think that you could build a magazine better an that for \$10,000?

Admiral Gregory. We might be able to, but they need an ammu-

i**tion** depot there.

Mr. Kelley. What do you think about this, Colonel? It is a ragazine building made of masonry. I notice all the new ones are

ade of light material.

Colonel ROOSEVELT. The doctrine at present is that they should ot be built of masonry, because masonry furnishes flying fragments case of an explosion. Whether you could build a new building for 10,000 which would serve the purpose, I do not know; I do not iink vou could.

Admiral Gregory. No: I do not think so.

Colonel Roosevelt. I do not know how many buildings you could nild for \$10,000. I should think that it would cost a great deal ore. I do not know how large this is. I can not tell you what the scale is and how complicated it would be. I would have to look over that long before I would be prepared to say that you could replace it for \$10,000.

Admiral Gregory. The ammunition depots for ordnance cost about \$100,000. It depends on the size. That is a building contain-

ing 50,000 square feet of floor here [indicating].

Colonel ROOSEVELT. And how much here [indicating]?

Admiral Gregory. It is a two or three story building and it would be hard to sav.

Mr. Kelley. The roof leaks?

Admiral Gregory. And it needs rebuilding to make it safe.

NAVAL AMMUNITION DEPOT, CHARLESTON, S. C.

MAGAZINE FOR WAR HEADS.

Mr. Kelley. The next item is, "Naval ammunition depot, Charles

ton, S. C.: Magazine for war heads, \$36,000."

Colonel ROOSEVELT. That is for the war-head torpedoes.

can not be kept with the others, and this is very important.

Mr. Kelley. If you do not keep the destroyers down there, will

you need the depot there?

Colonel Roosevelt. We will need a depot somewhere and I would want to check up as to whether we have another available depot.

Mr. Kelley. You might carry the torpedoes there in any event? Colonel ROOSEVELT. We might carry them in storage.

Mr. Kelley. How large a building would you put up there?

Admiral Gregory. That is a building 50 by 108.

Mr. Kelley. Please state again the necessity for that?

Admiral Gregory. That is for the purpose of storage of torpedo

That is a station for the destroyers.

Mr. Kelley. Have they any storage there to take care of these torpedoes! They must have a lot of empty shops which they could use?

Admiral Gregory. The ordnance material would not be in the section devoted to storage.

Colonel Roosevelt. It can not be.

Mr. Kelley. They have to have a separate place?

Admiral Gregory. Yes, sir; with special equipment, racks, and

Mr. Kelley. How are they getting along there now? Do they

have all the destroyers there?

Admiral Gregory. There will be before the end of the year ! great many destroyers there. They are gradually putting them of of commission at a rapid rate and it is necessary to remove and store the war heads when this is done.

Colonel ROOSEVELT. They would have to store certain stores

combination which they consider highly dangerous.

NAVAL AMMUNITION DEPOT, PUGET SOUND, WASH.

FUSE AND DETONATOR HOUSE.

Mr. Kelley. The next item is, "Naval ammunition depot, Puge Sound, Wash.: Fuse and detonator house, \$8,000."

Admiral Gregory. That is an additional building at the ammunion depot at Puget Sound. They are constantly enlarging that ace by reason of the increasing number of ships that is based on emerton and that is simply an additional building called for to et the increasing needs.

NAVAL AMMUNITION DEPOT, MARE ISLAND, CALIF.

ADDITIONAL STORAGE FACILITIES.

Mr. Kelley. The next item is, "Naval ammunition depot, ire Island, Calif.: Additional storage facilities, \$100,000." I do t think we can carry that. Is this an additional building? Admiral Gregory. It is an additional building; yes, sir.

Mr. Kelley. Please tell us the necessity for it. Colonel Roosevelt. The necessity for that, again, is the increased mber of units that is being based out there and the necessity for oring their adequate war supply of ammunition.

Mr. Kelley. Having more ships in the Pacific, you have to have

ore places for the storage of shells?

Colonel ROOSEVELT. Yes, sir.

Admiral Gregory. This has been requested very strongly by
e Bureau of Ordnance, which realizes the conditions to be very amped and cramping more, which is unsafe.

Mr. Kelley. Can not they store shells with perfect safety in

mporary buildings, cheap buildings?

Admiral Gregory. They are of light construction, but they have be strong enough.

Mr. Kelley. And away from the rest of the plant?

Admiral Gregory. Yes, sir: they are in a separate group of ildings; the ammunition depots.

Mr. Killey. How far away from the shops are these shells

Admiral Gregory. In the neighborhood of two or three miles. Colonel ROOSEVELT. That is what complicates the situation, Mr. nairman, because two or three times I have said myself, "Why n not you use this building?" and I have found it was too close to hers inhabited or being used.

NAVAL AMMUNITION DEPOT, PEARL HARBOR, HAWAII.

ADDITIONAL STORAGE FACILITIES.

Mr. Kelley. The next item is, "Naval ammunition depot, Pearl arbor, Hawaii: Additional storage facilities, \$80,000." Is that a ∍w building !

Admiral Gregory. That is an extension of storage; it is presum-

olv a new building.

Mr. Kelley. That makes a difference. If it is an addition to an cisting building we can consider it. If it is a new building, we ın not.

Colonel ROOSEVELT. That is separate?

Admiral Gregory. Yes, sir.

Mr. Kelley. It is for the same general purpose of storing shells d other ammunition out there?

Admiral Gregory. Yes, sir.

NOTE.—Included in the estimates for the fiscal year 1922 were a number of for storage facilities at the naval ammunition depot, Pearl Harbor, Hawaii, amout to \$342,000. This amount was to provide, among other things, for a certain demine storage as determined by the Navy Department. In view of the fact the \$177,000 was appropriated, however, it was not possible to provide for the full storage required, and the sum of \$80,000 asked for in the present estimates is to profer the balance of mine storage deemed necessary.

Mr. Kelley. Because of the presence of the fleet and the increin the number of destroyers, submarines, and other classes of vess Colonel Roosevelt. All classes of vessels and torpedoes as well other ordnance material.

LIGHTING AND POWER EXTENSION.

Mr. Kelley. "Lighting and power extension, \$15,000." If far is this ammunition depot from the yard at Pearl Harbor?

Commander Rouzer. About 5 miles.

Mr. Kelley. They have a power plant of their own?

Commander ROUZER. Yes, sir.

Mr. Kelley. What about the power extension, what does t mean?

Commander ROUZER. There is a special power house for ammunition depot, air is provided for the locomotive.

Mr. Kelley. And this is to increase the power plant?

Admiral GREGORY. No. They take their power from the myard nearby, but the transmission lines throughout the station in the yard are now overloaded and they wish to increase the size the conductors and to increase the distributing lines around station itself. They have been working with some very tempor lines there which have been a source of complaint because they apt to be blown down in a heavy wind. They want to put the lines underground where they will be safe and not be blown down they are apt to cause an explosion.

Mr. Kelley. That is, to put the transmission lines from the reg

power plant underground?

Admiral Gregory. Yes, sir.

Mr. Kelley. That would take \$15,000 altogether?

Admiral Gregory. Yes, sir: \$15.000.

NAVAL TORPEDO STATION, KEYPORT, WASH.

TORPEDO STORAGE.

Mr. Kelley. The next item is, "Naval torpedo station, Keyr Wash.: Torpedo storage, \$45,000." Admiral Parks cut that last year. Why have you it in this year?

last year. Why have you it in this year?

Admiral Gregory. They have but one building for the storag torpedoes now. This is to provide additional storage for apprimately 602 torpedoes.

Mr. Kelley. I remember something about it last year.

admiral did not think it was at all necessary.

Admiral Gregory. It has been made necessary because of a refrom Ordnance that additional storage is needed and that is why estimate is renewed. Perhaps it was not sufficiently understood year to press the point.

Mr. Kelley. My recollection is that it was only a question of a ttle more convenient storage space. There was something about he length of the torpedoes that made the building rather inconenient, but there was plenty of room except on account of the mgth of the torpedo. It used up more space than was really necesary if the building had been built according to proper dimensions. t is not the right size building. It took too much space to store a rtain number and they wanted a new building of the right size.

Admiral Gregory. I know that the building was practically filled

its fullest capacity two years back.

Mr. Kelley. What do you remember about that, Commander

ouzer?

Commander Rouzer. I have some testimony which was given st year along that line.

Mr. Kelley. Read it. What did the admiral say?

Commander ROUZER (reading):

Admiral Parks. They test them there at Keyport. They overhaul them and test

Ir. Kelley. They test them where they make them and then test them again out re'

Admiral PARKS. Where they are overhauled they are tested. They have a shop at port. I think these piers could be left out this time. Ir. Byrnes. That item amounts to \$70,000?

Admiral Parks. Yes, sir.

1r. Kelley. They will be all right for another year?

Admiral Parks. I think so. When I was out there in November it did not look to as though it was absolutely necessary to increase the output at the Keyport station y much at this time. Ir. Kelley. You thought that the plant was large enough to accommodate the

ivities there without additional facilities?

Admiral Parks. It looked pretty near so. The torpedo storage house was built en a shorter torpedo was in use, and the racks that are built at right angles to the lls will not accommodate the longer torpedoes and give the necessary handling space ween two rows of racks in the same building. It will be desirable to provide a ler building for handling the storage of the longer torpedoes.

1r. Kelley. But for the present, this item can be omitted?
Admiral Parks. I think it can stand until another year. That is based upon the derstanding that we must force the bill this year to a low point.

Mr. Kelley. Is it any more necessary to go in this year than when went out last year !

Admiral Gregory. Except it has been postponed a year already, d it is becoming more urgent. The placing out of commission so many destroyers makes it necessary to store more of their zipment ashore.

VAL TRAINING STATION, GREAT LAKES, ILL., SHORE PROTECTION AND HARBOR IMPROVEMENT.

Mr. Kelley. The next item is, "Naval training station, Great kes, Ill., buildings: Shore protection and harbor improvement, 25.000." What about that, Admiral?

Admiral Gregory. That is for the purpose of meeting our obligans which were entered into by authority of previous legislation. contract was let up to the full amount of the appropriation.

Mr. Kelley. Do you mean the full amount of the authorization or propriation!

Admiral Gregory. We now need the balance of the appropriation in order to meet the obligations which will come on contracts now in force.

Mr. Kelley. How much of a contract have we for work there! Admiral Gregory. We have one contract alone of \$975,000.

Mr. Kelley. What was the limit of cost on this improvement! Admiral Gregory. The act of July 11, 1919, authorized the limit of cost of \$1,500,000.

Mr. Kelley. And we have spent \$1,000,000 there?

Admiral Gregory. I can say this, that we have overobligated the present appropriations by the sum of \$413,500, but that amount is within the limit of the appropriation so the \$425,000 now called for not only the balance of the appropriation but also to meet obligations under the present contract.

Mr. Kelley. You have obligated \$1,113,000. You have he

\$700,000. That would leave \$413,000 instead of \$425,000.

Admiral Gregory. We are now \$413,000 overobligated. Mr. Kelley. Why do you want \$425,000?

Admiral Gregory. That is for the completion of the contract and small contingent items that we need for finishing up, putting the finishing touches on that work,

Mr. Kelley. Does that complete this improvement?

Admiral Gregory. That completes this improvement as far as we propose to push it.

Mr. Kelley. The contract is now in process of execution; are the

doing the work!

Admiral Gregory. Yes, sir; the work is going on. Not just at this minute, because they stopped during the winter, because everything froze. They will start in the spring with the full expectation of completing it the next fiscal year.

Mr. KELLEY. Do you know anything about this place?

Admiral Gregory. I have not been there.

Mr. Kelley. Have you been there?

Commander Rouzer. No, sir.

MARINE BARRACKS, SAN DIEGO, CALIF.

FURTHER DEVELOPMENT OF BASE AND PURCHASE OF LAND.

Mr. Kelley. The next item is, "Marine Barracks, San Diego. Calif., \$500,000." Will this finish up that job?

Admiral Gregory. Yes, sir.

Mr. Kelley. These contracts are outstanding and the work is going forward!

Admiral Gregory. It is going on right along. Mr. Kelley. When will this work be finished? Admiral Gregory. This next fiscal year, we hope.

Mr. Kelley. We understand about the little piece of land; General Lejeune told us about that the other day. How many men will the plant accommodate?

Admiral Gregory. One thousand eight hundred men.

NAVAL HOSPITAL, SAN DIEGO, CALIF.

Mr. Kelley. The next item is, "Naval hospital, San Diego, alif., \$500,000." Have you begun that naval hospital?

Admiral Gregory. Oh, yes; that is under way.

Mr. French. It is not one structure; there are many small build-

Admiral Gregory. Yes, sir; a number of different wards.

Mr. Kelley. How much have you spent there?

Admiral Gregory. We have three contracts out there aggregating total of \$855,000, a little over. That work is about 99 per cent mpleted; it was at the end of February. Now, there is other work at should be done—building the additional wards.

Mr. Kelley. How much money have you had altogether; what

s your first appropriation?

Admiral Gregory. \$750,000, allotted from "Hospital construcn," act of July 1, 1919.

Mr. Kelley. And \$500,000 last year?

Admiral Gregory. Yes, sir.

Mr. Kelley. You want \$500,000 this year, making \$1,750,000?

Admiral Gregory. That will complete the work.

Mr. Kelley. Why not change that language from "To continue"

**To complete"!

Admiral Gregory. We do not advise any change in the wording existing statutes, although in so far as the bureau is aware it will t be necessary to ask for additional funds to complete, provided • amount requested is granted.

The reason for that was that heretofore there has been a complete

>position there to cost \$1,975,000.

Mr. Kelley. That was the original limit?

Admiral Gregory. Yes, sir. This \$500,000 that we have requested

this year would bring up the total to \$1,750,000.

Mr. Kelley. The cost of material has gone down so that this 750,000 would build more hospital facilities than you contemplated tler the original estimate of \$1,975,000?

Admiral Gregory. Of course, we are taking advantage of the luced costs, and, furthermore, there have been simplifications of original plans which have enabled us to get more for our money.

Mr. Evans. The first appropriation was an allotment? Commander Rouzer. Yes, sir: \$750,000 allotted from "Hospitai **struction," act of July 1, 1919.

Mr. Kelley. How many patients will you accommodate now when

⊒ get this \$500,000?

Admiral Gregory. The number of beds provided by the construcn heretofore approved is 150, and the number that would be covd by this additional appropriation is 200, making a total of 350. Mr. Kelley. This is quite a hospital, with 300 beds costing **750**,000.

Admiral Gregory. That includes all the service buildings, power nts. laundry, and things of that kind. It must be considered Lt we are just going into Southern California with a number of se very big stations, and the need for hospital service on the west ist is very great.

SUBMARINE BASE, SAN PEDRO, CALIF.

Mr. Kelley. You have an item of \$100,000 for submarine at San Pedro, Calif.: Has that been authorized by law?

Admiral Gregory. That has not been authorized.

Mr. Kelley. And probably will not be.

Admiral Gregory. This is for the purchase of land and its velopment.

SUBMARINE BASE, PEARL HARBOR, HAWAII.

GRADING, RAILWAY, ETC.

Mr. Kelley. You have an item of \$25,000 for grading, rails and so forth, at the submarine base at Pearl Harbor. What al that, or how much is estimated for the grading, how much for railroad, and how much for the "so forth"?

Admiral Gregory. I find that that has been put in as one h sum of \$175,000. That was the estimate from the station, and has been cut, as you will see, to considerably less than oneof that amount by the department, or it has been cut down \$25,000.

Mr. Kelley. I wonder what they cut out.

Admiral Gregory. I imagine that would refer to the railroad struction, but I am not able to give you the details or the figures. is quite customary, as in the other development we touched on a moments ago, where the railroad work was the work approved—

Mr. Kelley (interposing). On that amount of information I g

we had better cut it out.

Commander Warren. In regard to that station, a group of marines were sent out there, and an officer was sent out to comm this station. Before he started out, he said to have what is out there?" I said, "Yes, there is not anything." I said what is out there take your station out with you." I wo for about a week for him through the department, and the result that he took his submarine station out with him on a collier. practically built the whole thing himself. Now, I understand they are trying to get some sort of railway facilities.

Mr. Kelley. We can not appropriate money on such general is mation as that. We want to know how much grading is to be d

how much railway is to be built, etc.

Commander WARREN. I do not know the details.

Mr. OLIVER. You do not know whether it would complete the w

Mr. Kelley. We do not know what it is for. Mr. Oliver. Has Yards and Docks any further information regard to this!

Admiral Gregory. We probably have some information at bureau on this item, and I would like to be permitted to subm description of it in the record. I have no doubt, in view of estimate of \$25,000, that it would certainly be desirable to pro for it. I have no doubt that the \$25,000 is absolutely essential start the work.

Mr. Kelley. They have tenders for the submarines out the have they not!

Admiral Gregory. Yes, sir.

Mr. Oliver. I think it is important that you put that submarine se in good condition. I have always felt that it was an important bmarine base. Now, whether you have sufficient data here to stify the committee in making an appropriation for work that you e not prepared to state is important is questionable, but I recognize e importance of providing for a submarine base out there. I think is most important, and I would like for you to look it up and see iat information you can supply us.

Admiral Gregory. I think we will be able to give you some in-

mation on that and I will insert it.

COTE.—It is contemplated providing extensions to the present track system to new piers for which an appropriation was made during the fiscal year 1922, approxitely 750 linear feet of additional track being required, at an estimated cost of 500. There is at the present time but one road leading from the entrance of the marine base to the water front with a small section of road along the water front. is contemplated providing approximately 4,000 square yards of pavement to the rs and around the various groups of buildings at an estimated cost of \$12,000. th the balance of \$8,500 is contemplated grading along the northern part of the marine base in the vicinity of the inboard ends of the new piers, part of this gradbeing necessary in conjunction with the railroad and road work.

t is believed that the item "Grading, railway, etc., \$25,000, submarine base, rrl Harbor, Hawaii," should read "Grading, railway and highway development, .000, submarine base, Pearl Harbor, Hawaii."

Mr. Kelley. How far is this base from the navy yard? Admiral Gregory. I do not know.

Mr. Kelley. You do not know what is there?

Admiral Gregory. No, sir; I have never been there myself. Commander ROUZER. It is near the yard at Quarry Point.

Mr. Kelley. What do you have there now in the way of shops, ounds, docks, etc. ?

Admiral Gregory. There must be 2 or 3 piers and about 15 or 20 There are apparently barracks and shop buildings, but anature of them does not appear here.

Commander Warren. It was salvaged building material that was

cen out on this collier.

FOR BATTERY STORAGE AND OVERHAUL BUILDING.

Mr. Kelley. For battery storage and overhaul building, you imate \$64,000.

Admiral Gregory. That is an estimate that was submitted a year o, and it is now renewed. The Bureau of Engineering makes a ong recommendation for the building of the building.

Mr. Kelley. What is the difference between battery storage and

tterv charging !

Admiral Gregory. These things are usually done either in the ne building or in adjacent buildings. The charging station is ere the batteries are charged, requiring service connections or ctrical connections for that purpose. The storage simply means cing the batteries ashore to be stored until such time as they may put into use. The two things really go together—that is, the

tery storage and overhaul building.

Ar. Kelley. You take these batteries out of the submarines? Admiral Gregory. It might be called a battery storage building. ev take them out of the submarines and store them or recharge m before issuing them again.

Mr. Kelley. Is this a new building?

Admiral Gregory. It is a remodeling and extension of the pr building. This is required at the subarine base. The or estimate was \$75,000 a year ago, but it has been cut to \$64.00 reason of reduced costs.

Mr. Kelley. It would not be in addition to the battery-char installation building that we authorized last year!

Admiral Gregory. No, sir; it would not. Mr. Kelley. This is a sort of shop in which batteries are e hauled and stored!

Admiral Gregory. Yes, sir.

Mr. Kelley. Has the contract been let for this battery-chap installation!

Admiral Gregory. That is being built, and all of that amount been allotted. It has all been obligated so far as the bureau is: cerned.

Mr. Kelley. How much of that money has been spent! Admiral Gregory. The entire amount has been obligated.

Mr. Kelley. How much has been spent?

Admiral Gregory. We have no recent report of expenditure

Mr. Kelley. Commander Warren, what about this battery-ch ing installation! In the bill last year we authorized a battery-ch ing installation.

Commander WARREN. Yes, sir.

Mr. Kelley. This year you ask for a battery storage and a hauling building. Why can you not add something to the a Would it not be more economical?

Commander WARREN. If you did, it would not make much di

Mr. Kelley. Do you have them charged at one place and chauled at another? Why not have them together? Commander Warren. The station has a small power plant and

wires lead down to the boats.

Mr. Kelley. Where is the installation!

Commander WARREN. That is in the building. When you to overhaul a storage battery, you take it out of the submarine carry it to a building. You must have a certain amount of res stock which must be racked and cared for and protected from That is true, because the plates are easily broken. there is a certain amount of chemicals involved. For instance. man wears a pair of shoes around a battery they will fall off o feet in a few weeks, due to the action of the sulphuric acid in We must have concrete floors for them. batteries.

Mr. Kelley. In charging the batteries, you simply connect t

up with the wires!

Commander Warren. Yes, sir.

Mr. Kelley. The installation is simply an electrical arrange on shore!

Commander Warren. Yes, sir; it is a power plant.

Mr. Kelley. This is a building of a different character, where are overhauled and stored!

Commander Warren. Yes, sir; but it could be added to building if they wanted to do that.

Mr. Kelley. If they are different kinds of buildings it would not e an addition.

Colonel ROOSEVELT. It would simply be two buildings grouped ogether.

Admiral Gregory. It would appear to be one proposition by eason of the fact that last year in the estimates they called for 100,000, and it was cut to \$50,000.

Mr. Kelley. That would not necessarily follow. Admiral Gregory. This would appear to be the completion of a lan they had in mind a year ago.

DESTROYER BASE, SAN DIEGO, CALIF.

STORAGE OF WAR HEADS AND TORPEDOES.

Mr. Kelley. The next item is, "Destroyer base, San Diego, Calif.: orage for war heads, \$60,000; storage for torpedoes, \$140,000; all, \$200,000." That is not authorized by law, and we will not That is not authorized by law, and we will not ther with that.

NAVAL AIR STATION, SANDY POINT, WASH.

The next item is for a naval air station at Sandy Point, Wash. tat is not authorized by law.

Admiral Gregory. No, sir; that is not authorized.

NAVAL BASE, ALAMEDA, CALIF.

Mr. Kelley. The next item is for a naval base at Alameda, Calif., d that is not authorized by law.

Admiral Gregory. No, sir.

Mr. Kelley. All of the items on page 122 go out.

INTENANCE, REPAIRS, AND PRESERVATION, BUREAU OF YARDS AND DOCKS.

Mr. Kelley. For maintenance, repairs, and preservation, Bureau Yards and Docks, you are asking \$6,750,000, as against your curate appropriation of \$7,500,000.

Have you made a distribution of that by yards? I understand is is not hard and fast but it is what you base your totals on.

Admiral Gregory. This sum of \$6,750,000 is not based on the rds' needs, nor is the sum total the amount needed at each indilual yard; it is simply a tentative cut from the amount of the propriation made last year, and that is the only defense there can for this figure. We know it costs a great deal more than that to aintain the various navy yards, but we simply spend to the limit that, and then the balance of the work we get in other ways.

Mr. Kelley. What do you mean by that? Admiral Gregory. A great deal of the plant is maintained by arging it up to the indeterminate expense account instead of direct the appropriation. It is a very difficult matter for us to tell how ich is actually expended for maintaining the various navy yards reason of the accounting system being such that you can not tell.

It has been explained, I understand, in former years, so it ought to be pretty well understood that the appropriation, maintenance, is not sufficient for the functions which are placed by it upon the Bureaud Yards and Docks.

Mr. Kelley. That would depend a good deal on whether the yard

were operating or not.

Admiral Gregory. That would not make a great deal of different. It would depend more on the value of the things to be maintained rather than upon that.

Mr. Kelley. Let us see about that. You bear a share of the expenses of the power used outside of the shops? You pay a proportion of the power which is used outside of the shops, do you not!

Admiral Gregory. At industrial yards it is practically nothing. We take the cost of lighting the yard that is charged to us, but we'co not have to take the cost of very much of the power that is produced for the reason that we do not have much productive labor upon which that power is applied. That is nearly all apportioned from the appropriations for repairs to ships; but, of course, where we operate stations the charges generally are taken against maintenance

Mr. Kelley. You maintain all the locomotives in the yards out of

this fund?

Admiral Gregory. And, as a general thing, the cost of maintaining those locomotives is a charge against indeterminate expense which's distributed among the other appropriations which have productive

Mr. Kelley. That is news to me. I thought you took care of

everything that moves about the yard.

Admiral Gregory. We should and in the old days we did. but gradually the appropriation, maintenance, has been falling behind the needs.

Mr. Kelley. Then if you do not have enough to take care of the yards the Bureau of Construction and Repair and the Bureau of

Engineering pay it out of their repair bills, do they?

Admiral Gregory. The work is ordered to be done by the commandant or manager of the yard, and then the accounting officer ditributes the cost of that to the other appropriations according to the amount of productive labor they have.

Mr. Kelley. Where do you come in!

Admiral Gregory. The bureau does not come in at all, and a lot of that we do not know; we do not know where the expenses go: that is, for a long time afterwards, and then the amounts are wcertain.

Mr. Kelley. What do you pay for in these yards? Admiral Gregory. We simply pay to the limit of our allotments that we have to spend on those yards. Then there are certain thing like the clerical and drafting force, watchmen, the cleaning of street. and that kind of work, and repairs to military buildings, which are made a direct charge against "maintenance," but there are many other changes which are connected with the output of the yard which it is possible to charge to general expense and that is distributed w the other appropriations.

Mr. Kelley. The fact is this, that if we give you a certain sum of money for this purpose you allocate that to the various yards and

stations for maintenance, repair, and preservation?

Admiral Gregory. Yes, sir.

Mr. Kelley. If that is insufficient for that purpose the difference is larged against the work that is done in the yard and paid for out of

her appropriations?

Admiral Gregory. That is the way it is done, although you must member that as the year goes by problems arise every day which ake it necessary to charge work in the yard to expense accounts her than the amounts allotted; the Bureau makes a quarterly lotment to each navy yard and then the yard figures from that parterly allotment what kind of charges they can take, for example, ch things as clerical force, watchmen and fire protection, and those ings must be taken under "maintenance." In the event that rtain work is necessary which they feel can not be made a charge gainst it, because of not having sufficient funds, they say, "Well ow, let us charge this to general expense, because it is something at can be distributed among various items."

Mr. Kelley. What charges are absolutely, uniformly, and always

ade against your fund in every yard?
Admiral Gregory. Well, such things as charges for grounds.

Mr. Kelley. Everything that is done in the upkeep of the grounds? Admiral Gregory. Everything on grounds.

Mr. Kelley. That includes the taking care of the docks?

Admiral Gregory. Oh, no; that is the clearing and cleaning the rd; it means the removal of refuse, the cutting of grass.

Mr. Kelley. Mowing the lawn, and that sort of thing?

Admiral Gregory. Yes, sir.

Mr. Kelley. What else?

Admiral Gregory. Buildings.

Mr. Kelley. Any repairs and alterations of any kind on any ilding.

Admiral Gregory. It should be done, but it is not on a good many

op buildings.

Mr. Kelley. Let us leave that out. Let us put in only the things ou know come out of this fund and always come out of it. How

out the repairs to the buildings, painting?

Admiral Gregory. Well, sometimes we make repairs to certain op buildings that are charged to shop expense; if they find the rd allotment is not sufficient and they have not got the money they arge it to shop expense. That ought not to be, of course, but it is ne sometimes.

Mr. Kelley. How about the power plant?

Admiral Gregory. In the power plant we handle the major repairs, it the minor repairs and operation are prorated; that is a charge ainst the power plant that is prorated to the various items of proctive labor which receive the benefit of power.

Mr. Kelley. How about the trucks and automobiles?

Admiral Gregory. There again we make the major repairs, the ijor overhaul, but the minor work of touching up here and there, thtly overhaul, supplies, and so on, are also prorated, and that is ain a general expense.

Mr. Kelley. You do the work and the other people pay the bills? Admiral Gregory. We do the work and we have to make the

res in that way because the appropriation is not sufficient.

Mr. Kelley. Suppose we wiped this out entirely and divided it among the other bureaus!

Admiral Gregory. Then you would never get any report at all a

to what the work costs.

Mr. Kelley. How much better off are we now?

Admiral Gregory. You are not so much better off, but what ought to be done would be to rebalance the appropriation so that the charges will be made direct charges.

Mr. Kelley. There is not a man living who can tell how much

money you ought to have in this fund.

Admiral Gregory. It could be determined approximately.

Mr. Kelley. If you had a general principle by which you were operating you could, but from all you have said it appears that if you have money with which to repair a building you repair it out of this fund; but if a building needs repairing and you have not the money, you charge it up to the work that is being done in that building?

Admiral Gregory. You charge it up to your shop expense, and then it disappears into the cost of production. That was made possible by legislation which was passed several years ago, June 30, 1914 I do not think that was the intention of it, but that is the way it

has been working.

Mr. Kelley. If we should make this \$5,000,000, you would spend it; you would apportion it and do whatever work could be done with the \$5,000,000, and then anything else that has to be done in the shops or yards will appear in the cost of repair or in the cost of manufacture?

Admiral Gregory. Yes.

Mr. Byrnes. There is no way of limiting the fund as long as you have the power to use other funds, is there?

Admiral Gregory. No; there is no way of doing it except by the

need for work as it arises.

Mr. French. It amounts to a supplemental fund to supplement each of these other funds, does it not?

Admiral Gregory. Yes.

Mr. French. They supplement this fund and your fund supplements their fund!

Admiral Gregory. Yes, sir; except that it does not go that way. Mr. French. Some way should be found to write down absolutely what you must do and have the money to do, and you should not draw money from these other funds. It would seem to me that

would be a helpful thing.

Admiral Gregory. The department is attempting at the present time, through a revision of its accounting system, to secure the greatest amount of direct charges against appropriations; that is desirable thing because then you will have your charges made direct and you will know exactly what your money goes for. Now, the reason why we have paid for these indeterminate charges is that the appropriation, maintenance, primarily is too small, and if that the increased by enough to take the direct charges, then your accounts system would be vastly simplified and you would also get the control of doing work which, at the present time, you do not get.

Mr. Kelley. Colonel, we have run into a situation here which is ppeless. It is in connection with the appropriation for yards and

ocks, maintenance, repairs, and preservation.

Colonel ROOSEVELT. That is a general catch-all appropriation they we had in there and it is one of the things with which we have d a great deal of difficulty because, although it catches all, it does t catch quite all, and you never know where it begins and where leaves off.

Mr. Kelley. Worse than that, the Admiral says it does not make y difference what sum we put in here, he will apportion that iong the yards and let it go as far as it will, and then whatever pairs, whatever preservation or whatever maintenance may be juired over and above the amount carried here will be charged to a work that is being done in the yard and go in as the cost of pair or the cost of production and paid out of other funds, so that living person can tell what it is costing to repair or run any yard, r can you tell the cost of repairing anything or the cost of manuturing anything.

Admiral Gregory. I understand this has been up before and is

thing new at all.

Mr. Kelley. We have had it before us in other years but I think u are a little bit franker about it than anybody else has been in sting your practice.

Admiral Gregory. I am just trying to be honest about it.

Colonel ROOSEVELT. As a matter of fact, I got last night a memondum on this exact subject. I have been fussing about about this rticular item for about eight months, as it comes into a question of r accounting system. I have been working with first one comttee and then with another committee in trying to get this matter nplified, and also trying to get another item, which is called indeternate expenses, simplified. I believe we are probably within about week of getting a decision on it. I have a memorandum on it now to just how it will be worked, but I will not attempt to go into it the you here because I do not fully understand it myself yet, and if lid start I would want to have with me at least two or three of the mmittee who have been working on the cost accounting and the propriation accounting in order to explain it to you. If you want em we can get them.

Mr. OLIVER. Have you been treating it rather as a reserve fund on nich you could draw or has it been allocated before any need has

en shown for it!

Colonel ROOSEVELT. It has been allocated first of all—it really is e other way around—what was not taken care of here was taken re of somewhere else, so you could not call it a reserve fund.

Mr. OLIVER. With that explanation, it occurs to me that it would improper to make an appropriation without some kind of a limitan; in other words, without showing to the committee that you may d funds in addition to what we have granted for specific purposes. Colonel ROOSEVELT. As far as that goes, I will give you a clear terment about where it will go to-morrow morning.

 I_{T_i} OLIVER. Why not have asked for it under those heads if you

* know where it will go!

Colonel Roosevelt. I should have said approximately. we came in we found this established custom of carrying this appropriation. Now, you can make a very good case for having everthing carried in this appropriation, but if you carried everything in this appropriation the appropriation would be enormously increase as far as our accounting methods go or as far as the accounting methods go which were in vogue when we took things over.

Mr. Kelley. How can you tell anything about where anything

Colonel Roosevelt. I will be able when I get this new arrange

ment through.

Mr. Kelley. If one article is made in which there is a charge or painting a building appearing in the cost and another article made in which the building is painted out of another fund and it does not

appear in the cost, your cost business is just a fake.

Colonel ROOSEVELT. No; but is is very difficult because our est business all the way through is compounded of items from various appropriations; that is what makes our cost accounting so exceedingly difficult in the Navy. For example, you would think that the sp propriation or charges for a particular article would come from one appropriation, but they do not; the shop cost has to be figured in percentages of other appropriations have to be figured in, and the result has been that it has been very difficult for us to find out just what any individual item costs until long afterwards.

Mr. Kelley. You could not unless you always considered the sum In some cases, where you have money in this fund. elements of cost. an element does not appear at all in the cost, and on another article where you do not have money in this fund, that element does appear

Colonel Roosevelt. Now you come to another item of ours which we have used to help this situation and which has been a perfect labyrinth to me, one that is entitled indeterminate overhead; I have been lost completely three or four times when I have tried to disset indeterminate overhead, and that is what this last board, which F bringing in this report, is working on, trying to eliminate the indeterminate overhead.

Mr. Kelley. Is there any way by which we can take this appropriation, in connection with the Bureau of Construction and Repair. the Bureau of Engineering, the Bureau of Ordnance, and the Bureau of Supplies and Accounts, and get at anything like what this ought

Colonel Roosevelt. Yes, I think so, and I can get that for you

to-morrow morning.

Mr. Kelley. I do not believe you can get it by to-morrow morning.

Colonel Roosevelt. Well, I will try.

Mr. Kelley. If you could get it a year from now you would be doing pretty well.

Admiral Gregory. I have it right here.

Mr. Kelley. What have you there!

Admiral Gregory. I will get Mr. Smith to explain that.

Mr. Smith. We have here a statement from the Bureau of Supplies and Accounts giving these indeterminate expenses for 1921.

Colonel ROOSEVELT. That is what I was talking about, the indeterminate overhead.

Mr. Smith. For 1921 it amounted to something over \$10,000.000

Per cent

Ir. Kelley. I do not think it will pay us to go into this, and I not believe it will be profitable.

Admiral Gregory. I will insert a statement.

a considering the subject it is necessary to keep clearly in mind the distinct difnce between "cost" and "appropriation charges." The "cost" of a job includes ry element of expense without regard to the appropriations which are involved. Instance, a job of roof replacement under a specific appropriation would require of the time of an officer in charge of the job, whose pay is chargeable to "Pay he Navy": a draftsman to make the plans, whose pay is chargeable to "Maintece, yards and docks"; heat and light, chargeable to "Indeterminate," and prod to various appropriations: material and labor applied directly to the job, charge-to the specific appropriation, etc., and all of these charges would be taken together take up the "cost" of the job. The "appropriation charge," however, is only portion of the "cost" which is finally charged against the appropriation being idered. If every element of expense on a particular job was a direct charge to right appropriation, then the "cost" would be the same as the "appropriation right; but it is not possible to divide up the overhead expense so as to distribute charges direct to appropriations, as this would require charging an officer's pay, instance, for a single day to many appropriations, which is manifestly impossible. refore there are several appropriations which are general-purpose appropriations provide for those elements of expense which enter more or less into every job. Propriation "Maintenance, Bureau of Yards and Docks," is one of these approtions. "Pay, miscellaneous," is another. These appropriation are intended arry expenses according to the language of the act. Appropriation "Maintenance, eau of Yards and Docks," does not now do this, because it is insufficient for the Dose.

ppropriation "Maintenance, Yards and Docks," is an essential appropriation. It not be eliminated on the theory that all of the charges which it now bears could prorated to other appropriations. It is only at industrial yards and stations (of ch there are 12) that charges are prorated, while at the nonindustrial stations (of ch there are 47 to which the bureau makes allotments) charges are made direct propriations, and there is no basis on which charges could be prorated.

propriations, and there is no basis on which charges could be prorated. he bureau makes allotments to the nonindustrial stations sufficient to bear the rees against appropriation "Maintenance, Yards and Docks," but it can not make tments to the industrial yards and stations to bear all of the charges which by law all be charged to this appropriation, for the reason that the appropriation is not

cient for such purpose.

he prorated charges are known as "indeterminate" charges in the accounting em and are not lodged against an appropriation until the end of the month. Direct rges can be controlled by the department in advance of expenditure. The acting system could, furthermore, be greatly simplified by making all charges et. The indeterminate charges can not be satisfactorily controlled for the reason they fluctuate according to the amount of productive labor employed, and such rges have therefore been left to the discretion of local officials. No officer having utory responsibility under the Secretary for expenditure of funds has any control r these indeterminate expenditures. It is, therefore, desirable that so far as sible all charges be made direct to some appropriation.

he allotments to the industrial yards are in such amounts as the funds available permit and are far short of the necessities. For instance, at Philadelphia, during 1, the maintenance and repair allotment was \$985,209.66, while the indeterminate rges applicable to "Maintenance, Yards and Docks," were \$1,592,328.09 additional, h charges are authorized by a provision in the naval act of June 30, 1914.

coording to reports from the Bureau of Supplies and Accounts, the total indeterate charges legally chargeable to appropriation "Maintenance, Yards and Docks" ing 1921 was \$11,142,845,97 (exclusive of Olongapo, not yet reported). During pary, 1922, an "average" month, such charges amounted to \$905,288, which, acling to reports of the Bureau of Supplies and Accounts, was distributed as follows appropriations:

	I CI CCIII.
ease, Navy	42
al emergency fund.	5
nance and ordnance stores.	
struction and Repair	
ineering	
drion ds and Docks	
is and bocks	4

At the January rate the expenditures for the fiscal year 1922 would be \$10.863.4% and at the percentages named the charges to the appropriations on account of inde terminate charges would be as follows:

Increase, Navy	\$4, 562, 651, %
Naval emergency fund	543, 172 🖗
Ordnance and ordnance stores	977, 711.04
Construction and repair	2, 389, 900, 2
Engineering	2, 064, 056 4
Aviation	108, 634, 5
Yards and Docks	217, 269, 12
-	

The above figures include all power expense. Under the accounting instruction "power expense" includes not only the direct cost of producing power, i. e., coaler other fuel, lubricating oil, water, waste, pay of engineers, firemen, and other power plant labor and supplies, but also replacements and repairs to power-plant building. distributing systems, machinery, boilers, piping, power plant, tools, etc. These latter items are such as are legally chargeable direct to "Maintenance, Bureau of Yards and Docks," but it is considered proper and desirable that the direct cost of the power furnished to vessels and shops should be charged to the appropriation provided for the repair, maintenance, or operation of such vessels and shops. It is estimated that 60 per cent of the entire power expense should be so charged and that 40 per cent should be borne by "Maintenance, Bureau of Yards and Docks" as covering the items of power expense last above mentioned.

The bureau estimates that the total indeterminate expense for 1923 will less \$10,000,000. During 1921 it was \$11,142,845,97 and the power expense was \$5,425,393.66, or approximately 48 per cent of the total. The power expense during 1923 is therefore estimated at \$4,800,000, and 60 per cent of this, or \$2,880,000, would be charged to the ships and shops appropriations, while 40 per cent, or \$1,920.00°, would be charged to "Maintenance, Bureau of Yards and Docks," which appropriation would thus carry all of the difference between the total of \$10,000,000 and the power expense amounting to \$2,880,000, chargeable to the other appropriations. This would place upon this appropriation \$7,120,000, in addition to the present est-

mate for 1923, \$6,750,000, making a total of \$13,870,000.

The bureau now proposes, in order to have charges made direct to appropriation. and thus give better control over expenditures and simplify accounting, to have the various appropriations rebalanced by providing sufficient funds under appropriation. Maintenance. Yards and Docks," to pay the charges which the wording of the appropriation act contemplates should be charged thereto.

The amount just stated to be appropriated is \$7,120,000 more than the present estimate of \$6,750,600. The appropriations of other bureaus which would benefit by this amount being taken out of "indeterminate expense" and added to "Maistenance, Bureau of Yards and Docks," approximately according to the percentage above stated, would be as follows:

Increase, Navy, (40 per cent).	\$2,848,000
Construction and repair (25 per cent)	1,780,000
Engineering (20 per cent)	1,424.600
Ordnance and ordnance stores (10 per cent)	712.000

6, 764, 000 No "naval emergency fund" expenditures are probable for 1923, while "Aviation" expenditures will probably be so comparatively small as to be negligible. These

two appropriations, which have carried some charges heretofore, are therefore omitted The bureau estimated that a substantial saving can be effected by this plan @ account of making charges direct, and therefore recommends that the amount to le appropriated under "Maintenance, Bureau of Yards and Docks," be fixed at \$12,500-000, or \$1,014,000 less then the present estimate, \$6,750,000, plus the \$6,764,000 above

mentioned. No legislation is necessary to accomplish this result other than that necessary to provide sufficient funds under "Maintenance, Bureau of Yards and Docks," thu relieving other appropriations from the expense of upkeep of shore structures properly chargeable to the appropriation just mentioned. An increase of \$5,750,000 under "Maintenance, Bureau of Yards and Docks," will render \$6,764,000 available for expenditure direct to fleet repair under other appropriations, a saving of \$1,014,000. Mr. Kelley. In the event that a yard is closed down or practically sed down, how will that reduce the expenses of your bureau, so far

that yard is concerned?

Admiral Gregory. We do not expect it will make any substantial ange in the charges which would come normally to Yards and ocks; the saving will be entirely on the appropriations to other treaus.

ESTIMATED EXPENDITURE FOR PHILADELPHIA NAVY YARD.

Mr. Kelley. Let us analyze that a little. Take the Philadelphia rd, you estimate next year to spend on the Philadelphia yard 77,650. Do you think it will cost any sum like that to close that .rd down and do what is necessary to keep it in status quo?

Admiral Gregory. That is the navy yard's estimate, but I am raid it would cost nearly that, sir. Let me explain that to you.

Mr. Kelley. Let me run into some of these items. Among these ems for the Philadelphia yard there is furniture, \$10,000. ould not need to buy any furniture?

Admiral Gregory. That would probably be almost entirely elimi-

Mr. Kelley. You would not operate the dry dock?

Admiral Gregory. No, but our appropriation is not for the operaon of the dry dock. What we expend is for repairs and upkeep.

Mr. Kelley. You have \$25,000 which could go out?

Admiral Gregory. It might be that the overhauling of the dryock would cost more than that. That is an item which increases id decreases from year to year.

Mr. Kelley. If you shut down there would not be much over-

uling of anything?

Admiral Gregory. We would have to make the repairs.

Mr. Kelley. The expense would, I suppose, be mostly fuel?

Admiral Gregory. The operation of the power plant for the itire yard is a great deal more than that; that is only the amount arged to "maintenance."

Mr. Kelley. That would be a big fuel bill if you were not doing

ıv work!

Admiral Gregory. That also includes the pay of the firemen and I that.

Mr. Kelley. You certainly would not need as many people.

Admiral Gregory. No: there would be some reduction.

Mr. Kelley. The waterfront, would you have to spend as much

Admiral Gregory. I can not say whether we would need as much

Mr. Kelley. For special equipment, you would not need to buy

Admiral Gregory. We would not need as much as that.

Mr. Kelley. Classified employees, \$92,000, that would all dis-

Admiral Gregory. That will be reduced.

Mr. Kelley. And, also, leave pay.

Admiral Gregory. A large amount would go.

Mr. Kelley. Holiday pay would also go: so that, after all, ye

would cut out quite a large amount of money there.

Colonel Roosevelt. You have cut out quite a large amount but I think that probably certain other items would go in. Adminlyou have cut out a lot of appropriations, or the chairman has cut them, but would you not have to increase in certain other items such as repairs to buildings, cleaning streets, etc?

Mr. Kelley. There is no need to increase the repairs to building.

Admiral Gregory. The direct charges would increase.

Mr. Kelley. If you are called upon to keep things in statu quand not to put everything in condition, or in such condition as you would have them if you were to operate them, but only in good shape so that they will not deteriorate and so the roofs will not leak its not possible that it would cost you more than half as much as it does to keep the plants in running condition.

Admiral Gregory. Yes, sir; I think it would cost more than that. Mr. Kelley. Those items I have named run into large sums, and

you have conceded that you could cut them

Admiral Gregory. When we have worked it out as to a number of yards that might be closed. I have found that the sum total of the inactive basis is very much the same as the amounts we now allot.

Mr. Kelley. These estimates are not the amounts you allow but these are estimates which are based upon what would be required if the system you have in mind were in operation. I think these aggregate some \$10,000,000.

Admiral Gregory. Those are not expenditures at all, but the are estimates received from the yards of what they thought the

would need continuing on the basis of the present practice.

Mr. Kelley. Now, what you are saying is that the amount we were paying during last year probably could not be greatly reduced, even if they were closed down, because a great many of the charges you would have to pay are now being paid by somebody else.

Admiral Gregory. Yes, sir.

Colonel ROOSEVELT. Of course the total would come down enormously.

Mr. Byrnes. A part of the maintenance of buildings is now being borne by other bureaus?

Admiral Gregory. Yes, sir.

Mr. Byrnes. And if they were closed down, there could be a reduction in the appropriations for those other bureaus?

Admiral Gregory. Yes, sir.

Colonel ROOSEVELT. The sum total would be greatly reduced.

Mr. OLIVER. Can you indicate to us where these cuts should be

Mr. Kelley. That is precisely what I understood you wanted.

Mr. Kelley. That will be in the Bureau of Ordnance, Bureau of

Construction and Repair, and Bureau of Engineering.

Admiral Gregory. We have been working over the reports that have been submitted to us by the Bureau of Supplies and Accounts

covering the expenditures that have been made.

Mr. Kelley. We will have to make this sum an arbitrary amount and try to arrive at a very close estimate with the other bureaus

Colonel ROOSEVELT. I do not quite share Admiral Gregory's optimism about having that so nearly ready, but it will be ready. I

• believe, in a very short time. Then, if we could get our accountsystem in, or if Congress would give us certain rights of transfer, en though they handled it this year under the old system, next war we would be in shape, after having operated for one year under at plan, to come in with a correct allocation of the funds. ∞ught there was this, that we are going to get this system of acunting very soon, and if, instead of attempting to handle the entire ▶ propriation under the new system of accounting this year, it were ▶ ndled under the old system, with certain privileges given to the ▶ cretary—and I am making this suggestion right off the reel, without wing conferred with the Secretary about it—as I say, with certain vileges given to the Secretary to reallocate the funds in accordance Lth this new system of accounting, then when the next appropria-In came up we would have been operating under it, and all of the propriations could be handled in the new way when it is worked **L**t; whereas, I am inclined to think that we have too little time is year to go into the enormous amount of detail that we might ▶ if the new system were perfected.

Mr. Kelley. We could put on limitations that would force an counting along certain lines, of course, but in doing so we would

eve, I fear, no proper gauge in fixing the amounts.

Colonel ROOSEVELT. No, sir; and that is why I suggest that you

eve the give and take in there.

Admiral Gregory. The give and take is already provided for by Lat clause in the appropriation act of June 30, 1914, which peratted all of this elastic charging under each indirect expense. I Link that in one sitting of the accounting board, although there ight be some disagreements, they could come to an approximate balancing of the appropriations handled by the several bureaus, and Len you could let that be the basis upon which the appropriations Lould be made. That could be done, and they would not have to mange a single item of the bill, or a single word in the bill, but the fference would be in the amounts. You could try that one year, ad then next year you would know whether you had struck the ght balance, or not.

Colonel ROOSEVELT. I wanted to avoid the trouble of the coincient bickering which would be inevitable in the distribution of the opropriations in that way. Instead of that, let us obtain the same sult by putting a system in vogue by which it would be balanced uring the year. Then, at the end of the year we would have tained your objective and would not have had the coincident

fficulties which I can see right away.

Admiral Gregory. Those are the two ways. The method you aggest, however, is tantamount to making one lump appropriation or the entire Navy, made up of the individual sums for each of the ifferent bureaus.

Mr. Byrnes. That is almost done now.

IR REPAIR TO PRIVATELY-OWNED RAILWAY CARS OF DAMAGES SUSTAINED WHILE IN CUSTODY OF NAVAL ESTABLISHMENT.

Mr. Kelley. On page 104 you have some new language, as follows: And for repair to privately-owned railway cars of damages sustained

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while in the custody of the Naval Establishment at navy vards naval stations.'

Admiral Gregory. That is for the purpose of enabling a v rapid or prompt settlement with the various railroads when the cars are damaged in the navy yards, perhaps, by careless hands At the present time we are not authorized by law to make the repairs, and it requires a great deal of red tape in order to have railroads secure the relief that they need. When a car is dama it can not be taken back over the railroad again in its damaged c dition, and because of not having that authority we are preven from playing fair with the railroad companies.

Mr. Kelley. Would you put any limitation on this?

Admiral Gregory. No, sir; there is no need of putting on a lu It is bound to be a very small amount in dollars and cents.

Mr. Kelley. The Secretary already has authority to settle cla not in excess of \$500.

Admiral GREGORY. Yes, sir; and that is why we have to refer it the department. That takes time.

Mr. KELLEY. I would not want to put that authority in the reaus. I do not think Congress would be willing to do that.

Admiral Gregory. If a car is damaged at a yard, and it is a mi damage, it is desirable to have that repair made promptly so t the car can be taken out.

Mr. Kelley. You want authority to settle those claims and t the money out of this appropriation without reporting it to Cong at all?

Admiral Gregory. Yes, sir. It is not a claim.

Mr. Kelley. It is the same thing. It is a claim on accoundamage to cars.

Commander ROUZER. The idea is for the Government to do work itself.

Mr. Kelley. That is the same thing.

Commander ROUZER. We can not do it now.

Admiral GREGORY. We have no authority now to make repair any property that does not belong to us, and this is to enable u do that.

Mr. Kelley. I do not know that you should have authority to

Admiral Rouzer. If we do the damage, or if it is damaged w in our possession ——
Mr. Kelley (interposing). You have authority to pay the dama

and is not that the better way!

Admiral Gregory. But how will the railroad company get its The law does not allow a car to go out over the main line damaged condition. If we had authority to make the repairs, t could be made promptly, and the car could go out.

Mr. Kelley, You could make an arrangement with the rail

company by which you could make the repairs.

Admiral Gregory. It has been complicated in the past, an has caused a great deal of annoyance. That is why we pro doing this.

Mr. Oliver. Do you have to pay demurrage on the cars per

the making of the repairs !

Admiral Gregory. Yes, sir; it will save money to have that vision go in.

CLERICAL EXPENDITURE, DRAFTING, MESSENGER, AND OTHER CLASSIFIED WORK.

Mr. Kelley. It is an item of legislation that we would not have **ris**diction over.

You have reduced the classified expenses from \$1,300,000 to ,150,000 ?

Admiral Gregory. Yes, sir.

Mr. Kelley. You could make a bigger cut than that, could you

Admiral Gregory. Not without tying up our records in bad ape. We have made very substantial cuts from 1917 to date, and

Le cut to \$1,150,000 is going to cause a very decided pinch.

Mr. Kelley. We will make quite a reduction in the establishent, I presume. In 1916 you had 325 employees, and the expense as \$346,759.94. Now you want about three times as much.

Admiral Gregory. No, sir; not three times as much. Mr. Smith. I have not the number of our present force that is tively employed, but the amount is \$1,126,848.

Mr. Kelley. How many people are employed? Mr. Smith. There are 539 employees.

Mr. Kelley. As against 325 in 1916. Who fixes the schedule of

by for draftsmen and other employees in the bureau? Admiral Gregory. That has been fixed by a board of officers in ie Bureau under a plan whereby they establish grades of pay for the fferent classes of work. Then the yards concerned place in that hedule the individuals according to their abilities and capabilities, nd the approval of their schedule is what fixes the pay of the indiduals. I know personally that many of those individuals are being aid less than their abilities demand, and there is a constant howl r better recognition. We know that they are ground down pretty ell.

PAY OF DRAFTSMEN, ENGINEERS, ETC.

Mr. Kelley. Most of your draftsmen and engineers are getting out \$3,000 apiece !

Admiral Gregory. No, sir.

Mr. Kelley. For the architectural aid the total per annum is 1,380.40; you have an assistant designing engineer at \$3,630.80; a vil engineer aid at \$3,756; another one at \$3,630; two at \$7,011 for e two; one at \$3,255.20; four at \$12,000, or \$3,000 each; one at ,286; one at \$3,757; one at \$3,130; three at a total salary of \$13,897, ı**d** so on down.

Admiral Gregory. Those rates of pay are in accordance with the

y of outside establishments.

Mr. Kelley. In 1916 there were two positions that paid a little er \$2,000. Those positions paid \$2,300, \$2,200, and the next was ,000. All the others were \$2,000 or less. This pay has advanced

out what percentage, would you say, since 1916?

Admiral Gregory. It is well known that the pay of professional

ople like that has advanced over double since 1916.

Mr. Kelley. Are these about the rates that are paid by the Newort News Shipbuilding Co. or the Fore River Shipbuilding Co.? Admiral Gregory. I think so.

Mr. Kelley. The pay is fixed by a board of naval officers?

Admiral Gregory. Yes, sir.

Mr. Kelley. And it is approved by the Secretary!

Admiral Gregory. Yes, sir.

Mr. Kelley. Have they been advanced lately?

Admiral Gregory. They have been cut lately. Actual cuts have taken place within the last month or so. There was a cut about month ago, and another one last fall.

Mr. Kelley. Do you furnish draftsmen for the Bureau of On-

nance?

Admiral Gregory. When we are designing any structures for those bureaus the draftsmen are paid for out of our appropriation.

Mr. Kelley. If we close down any considerable number of yards or partially close a number of navy yards, as a result of the cancella-

tion of ships, would not that reduce your force!

Admiral GREGORY. That will permit us to catch up with work that we now have on hand, and which, on account of the amount of crowling in former years, we have not caught up on. We have not caught up with all of the work that has been appropriated for even up to date.

Mr. Kelley. What work do you especially refer to?

Admiral Gregory. We have quite a good deal of work in the bureau now under amounts carried in last year's bill.

Mr. Kelley. Like the hospital at San Diego?

Admiral Gregory. We are working on that now. That work is not all completed, and a great deal of the work in connection with the San Diego Hospital is still going on in our drafting room.

Mr. Kelley. I can see how an outside field force might be required Admiral Gregory. Yes, sir; and an office force as well. We have a large amount of work coming to a head which we will not be able to even begin for a couple of years, but we will arrange to take a up as fast as we can do so.

Mr. Kelley. So you think this amount can not be reduced below

\$1,150,000 !

Admiral Gregory. Not without delaying the work very seriously.

AUTOMOBILES.

Mr. Kelley. I call your attention to this new provision:

Provided further, That hereafter the Secretary of the Navy may purchase undappropriations giving the requisite authority passenger-carrying automobiles sary for replacements, after proper surveys and condemnations, of not to exceed per centum per annum of the authorized passenger-carrying automobiles in serie at a cost of not to exceed \$2,000 for automobiles having a capacity of seven passenger or \$500 for automobiles having a capacity of tive passengers.

You have lots of cars, have you not!

Admiral Gregory. We had a lot of cars at the end of the war, we have had no new ones since then, and those cars are being war rapidly worn out. We are getting to the point where certain can when they are sold for junk, should be renewed. I think Command Warren wants to make a statement in regard to that provision.

Commander WARREN. We are not getting any mileage out of cars, and they are about to fall to pieces. Some of them are years old, and we thought that it would be the cheapest plan to be

next year to replace those cars.

Mr. Kelley. How many do you want next year?

Commander Warren. We want one-fifth of what we can run on **75,000**. We are running now 228 cars, including Marine Corps rs abroad. On the 1st of July we had 504, and we do not know w to beat this new law you made.
Mr. Kelley. You want to buy 40 cars?
Commander Warren. Yes, sir; one-fifth of what we have.

Mr. Kelley. What kind of cars do you want?

Commander Warren. We want to buy Packards, but we figure at we will probably have to buy something of the Buick type. e have to have a car if we are to have service, and we knew that out \$2,000 would be all that we could get.

Mr. Kelley. Do you handle all of the cars for the Navy?

Commander Warren. That comes under the Bureau of Yards and ocks, but it was such a mean job that they gave it to the Assistant cretary of the Navy, and I have been handling it under the personal pervision of the Assistant Secretary.

Mr. Kelley. Do you tell him what to do, or does he tell you what

• do }

Commander WARREN. He tells me what to do.

Colonel ROOSEVELT. I take his advice in a great many things on We have had stony hearts all last year. You can imagine at we have had stony hearts when I say that we have reduced the imber in the past six months from 504 to 228.

Mr. Kelley. How many automobiles did the Navy have before

ie war !

Commander WARREN. We owned 659.

Mr. Kelley. Before the war? Commander Warren. That was in March. I do not know how any we had before or during the war. That is as far as my knowl-

Mr. SMITH. The first ones were bought early in the war. Mr. Kelley. You did not have any before that at all?

Mr. Smith. No. sir.

Mr. Kelley. How did they get around?

Commander Warren. Every commandant had two horses and a

arriage.

Colonel ROOSEVELT. I remember that my father, when he was ssistant Secretary of the Navy, had horses and a wagon. I rememer that perfectly, and I remember he had an old driver named arshall.

Mr. Byrnes. Every commandant has a car.

Commander WARREN. Yes, sir.

Mr. Kelley. You have how many cars?

Commander Warren. Two hundred and twenty-eight, including **erv** car here and abroad.

Mr. Kelley. That will take care of all the commandants?

Commander Warren. Yes, sir.

Mr. Kelley. How many cars have you in storage? Commander WARREN. We have in storage about 123.

Mr. Kelley. Are they entirely useless? Commander Warren. We have reports on the condition of each e of them, and we are selling them. We are cutting them down ery day by selling them.

Colonel ROOSEVELT. We sold more than 100 during last year. Mr. Kelley. I guess we will have to let the officers buy their on

Commander WARREN. Can you imagine running an industrial plant the size of the Navy without some kind of cars?

Mr. Kelley. They have 229.

Commander WARREN. Yes, sir; but it costs a great deal of mong to run those cars. We have got to replace them in some way.

Admiral Gregory. There is a matter of economy involved because we are not asking for an increase in the amount of money for upkeep. This is for the purpose of being able to make an ennomical disposition of a car when it gets to the point where the cos per mile is too great to operate it, and when it should be scrapped and buy a new car. We figure that we can reach a certain post where the cost of upkeep is more than the cost of getting a new ca

Mr. Kelley. A few years ago Congress would not give the Speaker of the House of Representatives a car, and I do not know whether he has one now. You speak of \$2,000 cars, but you would not was anything better than a Ford to run around the navy yard. A gool

bicycle would be better yet.

Admiral Gregory. It is proposed to replace the old high-grade

cars with seven-passenger cars.

Mr. Kelley. Why would you want a seven-passenger car around

a navy yard!

Admiral Gregory. The commandant of the navy yard frequents needs such a conveyance for parties of official visitors at the year including foreign representatives, etc., who are paying official calls Very frequently he needs a big car, and he is not the only one that needs a car.

Mr. Byrnes. How many yards have we got, or how many com-

mandants do we have?

Admiral Gregory. We have nine navy yards and a great may naval stations.

Mr. Byrnes. You have 28 commandants, leaving 200 cars for people who have no official visitors to take care of. The question why is it necessary to have so many cars, and we will have to answ

that question on the floor of the House.

Admiral Gregory. I can give you an experience that I had out last summer while I was stationed as public works officer at the Bosto Navy Yard and aid for public works in the first naval district. I that capacity I had charge of the work from Bar Harbor on the north to Newport on the south. I had under construction during the period probably seven or eight different radio compass stations. there was construction work going on at every one of those place After July 1, last, when the restriction that was put on went effect. I found that I was compelled to ask a contractor to fund me with an automobile to go to a certain place where his continu was under way. That is not a proper position to put an officer the Government in -- that is, to have to ask a contractor to furnish transportation. I had to do it because there was no car available for the public works officer of the first naval district. There is great deal of travel duty in inspecting work and inspecting status For instance, the radio matériel officer who had charge of the open on of all those stations had to visit them. He had to visit the men see that they were on the job, that the work was being done proply, that proper reports were being made, and that the plants were ing kept up as they should be. He had the same difficulty to go rough with, and if he did not have a car of his own, he would have beg, borrow, or steal in order to get a car. I do not think you ntlemen realize, where you have so many stations that are dendent upon a single station as headquarters, what a great deal of ficial travel is necessary.

Mr. Kelley. There will not be so many next year. That work you

e talking about was during the war.

Admiral Gregory. There was no war last year and I had that

propriation with no war going on.

Mr. Kelley. We just ended the war a few weeks ago officially, you now, and there is always a lot of hang-over stuff that follows a war. ut those places will all be shut down next year.

Admiral Gregory. The radio compass stations are, so far as I can e, permanent institutions. There are places where we might be ble to cut down some, but I think very few.

Mr. Kelley. \$767 is what it cost you to keep up one of these cars

ring the year. They must be pretty good cars.

Admiral GREGORY. When you take into consideration the cost of a auffeur and all——

Mr. Kelley (interposing). Do all of the mechanics have chaufurs? You do not have many chauffeurs, do you?

Admiral Gregory. You have to pay for chauffeurs when they are ilians.

Mr. Kelley. Do you allow these people to have chauffeurs as well cars?

Colonel ROOSEVELT. Some of them have and some have not.

Commander Warren. The commandants of all big stations have suffeurs.

Admiral Gregory. As a matter of fact, I would rather pay a suffeur than trust a Government car to the average naval officer ving it. We find it costs much less.

ving it. We find it costs much less. Colonel ROOSEVELT. Perhaps it might aid you a little bit if Com-

nder Warren gave you the distribution.

Mr. Kelley. You might put that in the record, as it will show who is the cars. Is it a long table?

Commander Warren. No, sir; not particularly. I will insert it.

'ement of passenger cars (exclusive of motor cycles) in use or reserve, and allowances for maintenance, operation, and repair.

[Compiled from latest reports to the Bureau of Yards and Docks, March 20, 1922.]

Place and allowance.	Car and No.	Assignment.
ntic Fleet, \$600oa. \$1,800win, \$290		General use. Superintendent. Buildings and grounds. Medical officer on out-patient duty. Commander in chief, Atlantic Fleet. Commandant fifteenth district. Allowance is for a motor cycle for general use. Public works officer, first district. Commandant's officer.

Statement of passenger cars (exclusive of motor cycles) in use or reserve, and allowing maintenance, operation, and repair—Continued.

Place and allowance.	Car and No.	Assignment.
Boston, \$3,391	Nash, 1732 Ford, 1701	Chief of staff, first district.
, ,	Ford, 1701	Commandant's office.
	Dodge, 953	Supply and disbursing departmer:
Care May. 800	Ford, 1824	In reserve. Public works department.
Cape May, \$900	Packard, 2×22	Commandant.
Charleston, \$3,495	Cadillac, No	Do.
Coco Solo, air, \$15)	Ford, 1886	General use.
Coco 3010, an, 4137	м-ме	Allowance is for a motor cycle for pure.
Coco Solo, hase, \$7*)	Ford, 1889	Commanding officer.
	G. M. C. (bus)	General use.
Curara Shiffi	Cadillac 2s76	In re-erve. Force commander, f'ac-hip.
Europe, \$5,000	Calillac 2wi	London.
	Cadullac. 2570	Faris.
	Ca lillac, 2889	Constantinople, Berlin,
Fort Lyon, \$580.79	Campac, 1991	Transferred to Veterans' Bureau.
Great Lakes, \$1.940.48	Fackard, 135	Commandant.
	I ackard, 134	In reserve.
C	National, 138	Executive officer.
Guam, \$1.3%	Ford 305	Generaluse
, Laboratory Control of the Control	Ford, 1155	In re-erve.
14am 67an Kasa 24.59a	LANUAC ZIII	Commandant.
	1 ackard. (19	Commanding omcer, trainn, stair -
	Feerles 1162	Commanding officer, air station. Officer in charge, supply station.
'	Ca lillac, 19×1	Assistant commandant. Training station.
	Ca lillac, 1981 Ford, 2238 Ford, 113-X	Training station.
1	Ford, 2241	In reserve.
Hingham, \$225	Ford	Inspector in charge.
Indianhead \$3,600	Packard, 381 Hudson, 1780	Do.
	Hudson, 1780 Hupmobile, 1783 (2-passen-	Commanding officer, Dallyren. In reserve.
	ger.)	mieserve.
	White 7, 1785	Do.
T A BOOK	Oldsmobile, 382	Commanding officer, Indianhead.
Keyport, \$600 Key West, \$600	Ford, 2669 Overland, 1944	General use. Commandant.
Lake Denmark, \$600	Ford, 110	Inspector in charge.
Lakehurst, \$3,360	Pierce-Arrow bus, 1630	Civilian employees and liberty parties
	Ford, 889	Mail orderly and routine.
	Packard, 1997 Cadillac, 2213. Winton, 417.	In recerve.
•	Cadillac, 2213	Manager.
Mare Island, \$3,48)	Winton, 417	Commandant.
No	Ford. 419.	In re-erve.
New London, \$1,200	Marmon, 1498	Commanding officer. Commandant.
New Orleans, \$2,700 Newport, War College, \$2,700 Newport, Naval Station, \$250.	Cadillac (limousine), 2367	President.
Newport Naval Station, \$250.	Ford, 1748	Medical officer.
New York yard, \$3,300	Packard 579	Commandant.
New York district, \$3,550	Cadillac, 1298 Packard, 564	In reserve. Commandant.
	Packard, 571	In reserve.
	Winton (limousine), 1301	General use.
Norfolk, \$3,330	Peerless, 685	Commandant. Manager.
1	Ford 693	Captain of yard.
1	Ford, 692	Supply officer.
	Ford, 687	Medical officer.
Paris, \$2,700	Cadillac, 2879	Graves registration.
Pearl Harbor, \$2,075.67	Cadillac, 642	Do. Commandant.
;	Owen-Magnetic, 772	In reserve.
	Ford 773	Public works officer.
!	Ford, 2032	Medical officer.
	Ford, 1140	In reserve. General use.
	Ford, 1943. Winther bus, 1229.	In reserve.
i	W [m) Fer Figs, 1229	
Pensacola, 42,200	Pecrless, 818	Commandant.
Pensacola, 42,200	Peerless, 818 Owen-Vagnetic, 395. Ford, 819	

of passenger cars (exclusive of motor cycles) in use or reserve, and allowances for maintenance, operation, and repair—Continued.

nd allowance.	Car and No.	Assignment.
pard \$4 500	Packard, 1351	Commandant.
yard, \$4,500	Packard, 482	In reserve.
	Cadillac, 2017	Commandant's office.
	Cadillac, 2338	In reserve.
	Cadillac 1682	Aircraft factory.
. Home, \$840	Cadillac, 1683	Governor,
\$2,700.,	Panyloge 012	Commandant.
481(00-5	Cadillac 2474	In reserve.
. \$3,300	Cadillac, 2474 Winton, 926	Commandant,
, 40,000,	Ford, 1001. Ford, 2773. Ford, 1078. Ford, 1573. Oldsmobile, 2776.	In reserve.
ervice, \$11,700	Ford 2773	Baltimore, Md.
	Ford 1078	Washington, D. C.
	Ford 1573	Brooklyn N V
	Oldsmobile, 2776	Brooklyn, N. Y. Buffalo, N. Y.
	Studebaker bus, 2784	Chicago, Ill.
	Ford 1599	Do.
	Ford, 1599	Cincinnati, Ohio,
	Ford 1356	Dallas, Tex.
	National, 117	Detroit, Mich.
	Ford, 2700	Indianapolis, Ind.
	Studebaker, 1205	Inspector, New England,
	Cadillac, 2499	Inspector, eastern.
	Cadillac, 2148	Inspector, southeastern.
	Cadillac, 1958	Inspector, southern,
	Oldsmobile, 2697	Inspector, central.
	Cadillac, 2686	Inspector west central
	Cadillac, 2821	Inspector, west central. Inspector, western,
	Ford bus, 2747	Little Rock, Ark.
	Studetaker bus, 2726	Los Angeles, Calif.
	Ford, 1594	Nashville, Tenn.
	Ford, 2100	New Haven Conn
	Ford 1997	New Haven, Conn. New York, N. Y. Philadelphia, Pa.
	Ford, 1297 Ford, 1350	Philadelphia Pa
	Ford. 2685	Portland, Oreg.
	Ford, 2685	Recruiting bureau,
	Oldsmobile, 2366	Seattle, Wash.
	Ford, 1975	St. Louis, Mo.
600	*****************************	Transferred to Philadelphia, Dec. 20, 192
\$2,700	Cadillac, 2873	Commandant.
	Ford, 2892	Hospital.
	Packard, 2810	In reserve.
ir Station, \$888	Ford, 1377	General use
leventh district,	Ford, 970	General service.
actional seasons	Ford, 1153	Do.
ase, \$2,700	Packard, 965	Commandant,
o district, \$2,700	Cadillac, 2255	Do.
1,200	Cadillac, 2480	Commander in chief, Pacific Fleet.
go, \$2,700	Cadillac, 1679	Military governor.
and deliner to the first	Ford, 995	Supply officer,
lyn, \$600	Cadillac 2578	Officer in charge.
ston, \$2,700	Cadillac, 2578 Packard, 1008	Increasion in charge
yard, \$3,300	Packard, 1025 Dodge (2), 2497 Dodge (2), 2664 Willys (7), 2495	Commandant.
dispensary, \$4,200	Dodge (2), 2497	General use.
or decrees 2 f a state.	Dodge (2), 2664	Do.
	Willys (7), 2495	In reserve,
department,	Packard (limousiue), 1947	Secretary.
cicpan carerre,	Winton (limousine), 1300	Assistant Secretary.
	Cadillac, 2874	Chief of Operations.
	Packard, 1068	Pooled for special use and replacement.
	Packard, 1945	Do.
	Ford, 1026	General use.
1,200	Reo, 1929	
hen accessor	Ford 9032	Public works and supply officers
	Ford, 2033	Public works and supply officers.
	White bus (12), 2370	In reserve. Do.
	Ford, 1066	Do.

Passenger-carrying vehicles owned by the Marine Corps in the United States.

[Allowance, \$24,900. Column "Light" includes Fords, Dodges, and Nash 5-passenger cars; all other included under column "Heavy."]

Station.	Automobiles in use.		Automobiles in storage.	
	Heavy.	Light.	Heavy.	Light.
Hampton Roads depot		1		
Mare Island, Calif. New London, Conn. New Orleans, La.	1,			
New London, Conn	'			
				•
New York, N. Y Norfolk, Va				•••••
Norfolk, Va Parris Island, S. C		2		
Philadelphia barracks.		•		•
Philadelphia, Pa. (depot)			3	
Philadelphia, Pa., depot (use)		1		
Quantico, Va.:	- T	- 1		
Barracks	2:	2	1	1 :
First Regiment				:
Tenth Regiment				
San Diego, Calif., barracks		1		
San Diego, Calif., A. B. F.			<u>-</u>	
San Francisco, Calif. (depot)	1 '		į.	******
Washington, D. C. (headquarters)Yorktown, Va.	'	1	2 .	
Total	11	12	10	ъ

Grand total, 197. Total of allowances, \$154,847.94.

Mr. Kelley. These are pretty hard times and I doubt whether Congress would be willing to give you 40 new automobiles, but we'll think it over. I think this is legislation, anyway.

Admiral Gregory. No; it is the renewal of old, worn-out cars. Mr. Kelley. Is there anything else about the automobiles? Admiral Gregory. There is some other language at the bottom of the page.

Mr. Kelley. "And exclusive of vehicles being used by medical officers in attending patients." Why do you want those excluded

Commander Warren. A case in point came up at New London. Coun. The medical officer there has to attend all the officers, the enlisted men and their families; they are scattered and he has nothing with which to get around, and out of the appropriation we have we can not give him an automobile. He borrows the commandant's car and uses private cars.

Mr. Kelley. I have an idea you will be able to find cars enough for the doctors wherever it is necessary out of all this number.

Commander Warren. That is not a whole lot of money.

Mr. Kelley. What was your repair bill for automobiles this lest year?

Commander Warren. We allot the money for our repair bills. This is one allowance which we said had to be kept within and we have a little money left, with which we are going to try to put some more cars in shape. We gave them \$1,200 for a big car; that is, for the upkeep of it, and we gave them \$600 for the upkeep of a little car, and we told them when they exceeded that amount or before they exceeded it to put the car out of commission and walk, so they are not exceeding it.

Mr. Kelley. If this language were put in this bill, how many extra

cars would it make?

Commander Warren. Personally, I do not think it is good lanmage.

Mr. Smith. It will make no extra cars, because it is merely for

eplacement; one will go out and one will come in.
Colonel ROOSEVELT. That is not meant to increase the number of ars a single one, not one; it is simply meant to act as a replacement or a car which has worn out. If the committee desires to fix a definite mit on the number of cars that may be replaced it is requested that ne number be fixed at not less than 20.

Mr. Kelley. It provides:

That expenditures from appropriations contained in this act for the maintenance, eration, and repair of motor-propelled, passenger-carrying vehicles, including the repensation of operators, shall not exceed \$175,000, exclusive of such vehicles owned d operated by the Marine Corps in connection with expeditionary duty without e continental limits of the United States, and exclusive of vehicles being used by dical officers in attending patients.

That would put those two outside of this limitation.

Colonel ROOSEVELT. I think the matter of the Marine Corps came > last time.

Mr. Kelley. But the effect of this would be to allow as many cars r doctors as you saw fit, and I asked you how many you thought

Commander WARREN. That is something no one could estimate, at it would not increase the present number.

Mr. Byrnes. You do not know how many they now have?

Commander WARREN. Yes; we know how many they now have, ut in some cases they do not have far to go and in some cases they . It is entirely in the discretion of the Assistant Secretary; they rplain the case to him and he says yes or no.

Mr. Kelley. Who furnishes the gasoline for the cars?

Commander Warren. It does not make much difference who furishes it, but usually Yards and Docks. However, it is charged gainst the allowance we give them.
Mr. Kelley. Against the \$175,000?
Commander Warren. Yes, sir.

Mr. Kelley. There is a small item for contingent expenses.

ad \$150,000 for 1922, and you are asking the same amount for 1923. Admiral Gregory. Yes, sir. From the very meaning of the words covers things we can not foresee, and if we do not need the money e do not expend it. However, in case of emergency we have it nd can use it.

THURSDAY, MARCH 23, 1922.

STATEMENT OF REAR ADMIRAL L. E. GREGORY, CHIEF.

SALARIES.

Mr. Kelley. You have this year for your permanent roll \$23,690. low much are you asking for next year?

Admiral Gregory. It is being increased by \$1,000 to the sum of 24.690, that increase being for the chief clerk.

Mr. Kelley. If that is not allowed, the statutory list will stand the ıme as last year? Admiral Gregory, Yes, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. For the temporary roll, you have this year \$50.00.

and you are asking how much?

Admiral Gregory. This year for the temporary roll we have a limitation of \$50,000, but our roll actually amounts to \$46,580. We are proposing a reduction to \$30,660, which is a very large percentage.

Mr. Kelley. How many employees have you altogether in the

bureau ?

Admiral Gregory. On that force we have at the present time 3-that is, on the additional clerical force.

Mr. Kelley. And they are added to your statutory force?

Admiral Gregory. Yes, sir; of 20, making 58 in the clerical fore.

DRAFTSMEN AND OTHER TECHNICAL EMPLOYEES.

Mr. Kelley, Now, the drafting force. You had a limitation of \$200,000 last year.

Admiral Gregory. And we have proposed a reduction to \$10000

for the next fiscal year.

Mr. Kelley. I was hoping you might cut that down a little more

this year, Admiral.

Admiral Gregory. We have made a cut in that, Mr. Chairman which is very large, and I have grave misgivings as to whether we can do that without cripping our work. We are doing a great deal of work for other bureaus. For example, for the Bureau of Engineering we are doing a good deal of work on radio stations; for the Bureau of Aeronautics we are opening up a great big field of work which was not done before the war; for the Marine Corps we have all of the barracks, and for the Bureau of Medicine and Surgery we have all of the hospital work.

Mr. Kelley. You do not build the radio towers?

Admiral Gregory. Yes, sir.

Mr. Kelley. If we should adopt the policy of just keeping the in good shape but not spreading out just at present, would that make

some difference?

Admiral Gregory. We are counting on that, but there is another thing: Before the war the value of public works and plant was approximately \$212,000,000, and since the war they have been increased so that the approximate value at the present time is \$546,000,000, and the maintenance work all falls upon the technical and clerical form of the Bureau of Yards and Docks.

Mr. Kelley. If there is quite a cessation of work on the Atlantic in the yards, your draftsmen will not have so much to do, and you would not need so many. However, you think you have made all the off

you can stand?

Admiral Gregory. I know we have, and we have taken all of that into account. We also have to consider this: The work that is now under way; and until that is finished we must have a drafting fore to check up the contractors' drawings, keep track of records, and things of that kind. So I feel that in the cut we have proposed we have been exceedingly liberal, because I think we have cut to the boxe.

Mr. Kelley. Could we make it \$150,000?

Idmiral Gregory. I should hate to see you do it. This figure was de before I came here, and as soon as I saw it I realized it was ng to mean an enormous cut, and I do not think we could cut below figure at which we now have it, and I doubt whether I would re suggested as much of a cut as this.

WEDNESDAY, MARCH 22, 1922.

PINOLE SHOALS-MARE ISLAND CHANNEL.

ATEMENTS OF BRIG. GEN. HARRY TAYLOR, ASSISTANT CHIEF F ENGINEERS, UNITED STATES ARMY; COL. THEODORE ROOSE-ELT, ASSISTANT SECRETARY OF THE NAVY; AND REAR AD-IIRAL L. E. GREGORY, CHIEF, BUREAU OF YARDS AND DOCKS.

Ir. Kelley. What is your office in the Army, General Taylor? in the Assistant Chief of Engineers, and parllarly in charge of rivers and harbor work. Ir. Kelley, You are familiar with the War Department im-

vements leading from San Francisco to Vallejo? ieneral Taylor. Yes, sir.

Ir. Kelley. I wish you would make a brief statement as to the ns of the War Department, what you are attempting to do, how t the work is progressing, and when you expect to complete the ject according to your plans. First, what the plans are; second, stage of the work; and third, when you will be through.

ieneral Taylor. The project which has been authorized by Conss provides for a channel across Pinole Shoal, which is the shoal th of the Mare Island Navy Yard or Vallejo, 35 feet deep at mean water and 500 feet wide; also a channel 35 feet deep into the re Island Straits. This is the channel across what is known as ole Shoal [indicating on map] and leading up to this deep hole this point [indicating] and into the Mare Island Strait, the y yard being situated at this point [indicating]. On the 30th June this channel was approximately 32 feet deep for the full th of 500 feet.

Ir. Kelley. That is, through the shoal?

deneral Taylor. Yes, sir. There remain some 600,000 yards to aken out of that channel to complete it to the full project depth 35 feet. The dredge which is working on that shoal has a capacity about 100,000 yards a month, so that if we should put a dredge here and keep her continuously at work it would be a matter of months to finish the work. Since that time the dredge has been king in the Mare Island Strait along the front of the navy d. Last June there was a depth of 35 feet in the channel, but e that time a portion of it has shoaled and there is now a depth, lieve, of 31 feet.

Ir. Kelley. In front of the yard?

eneral Taylor. Yes, sir. That is not, however, the full width of basin.

Ir. OLIVER. What is the extent of the shoal? eneral Taylor. It is somewhere from 29 to 31 feet.

Colonel Roosevelt. That is, including the turning basin of 1000 feet ?

General TAYLOR. Yes, sir: there is a little greater depth in from of the navy yard. I think, where we have been working; I think it is very nearly 35 feet deep there, but on the side away from the vard there has been considerable shoaling.

Mr. Kelley. Was that due to the piers, dikes, and other obstra-

tions there giving way!

General Taylor. No, sir: the dike is of material assistance in mintaining this channel, and also in maintaining the channel into the navy yard.
Mr. Kelley. What causes the filling up of the strait in front of

the navy yard!

General Taylor. The material which is deposited in the channel and which is brought in largely from the shoals south of the van.

Mr. Kelley. And the only remedy for that is constant dredging! General TAYLOR. Yes, sir. As I say, the dikes which have been built are of material assistance, but the dikes alone will not maintain the channel. If it were necessary to finish the channel earlier. could, by putting in another dredge, complete it in a very short time The dredge we are using is what we call a seagoing hopper dredge: it is a dredge which sucks the material off the bottom, pumps it into bins in the dredge itself, and then carries it away; we also have some pipe-line dredges, which are working on the Sacramento River farther up, and if necessary we could put one of them in there or we could put another hopper dredge in there.

Mr. Kelley. So that within the next six months you could make

your project depth of 35 feet?

General Taylor. We could not get the full depth over the full width in the Mare Island Strait Channel in six months; it would require considerable additional plant to do that—more plant that we have—in six months.

Mr. Kelley. How long would it take to do it with your present

facilities or with facilities that are easily available?

General Taylor. We could probably do it in a year and a half to two years.

Mr. Kelley. That is, make the channel 35 feet deep for the full width of 500 feet and the basin 35 feet the full width?

General Taylor. Yes, sir.

Mr. Kelley. Have you any idea as to the annual expense of maintaining it at that depth and width, both the channel and the basin!

General Taylor. Both the channel and the basin will probably

cost \$200,000 a vear to maintain.

Colonel Roosevelt. I want to get that clear in my mind. That is it will cost \$200,000 a year to maintain the channel and basin regard less of what we do on the dikes?

General Taylor. The dikes assist; and without the dikes it would

cost more.

Colonel Roosevelt. But it will cost \$200,000 to keep the channel with the dikes and everything in?

General Taylor. Yes, sir.

Mr. Kelley. That is not a very exorbitant charge, is it, for dredge ing a project of that kind and for as large an establishment as we have there?

General Taylor. No. sir; I do not consider it so; I consider it a ry small maintenance charge; it certainly is very small as comred with Philadelphia, for instance. It costs us \$1,500,000 a year maintain the channel up to Philadelphia.

Mr. Oliver. There is considerable commerce on that water, is there

t?

General Taylor. There certainly is, and it is growing very rapidly. Mr. OLIVER. And this will make it possible to use much larger

General Taylor. There is a great demand for the maintenance of is channel across Pinole Shoal by the commercial interests, with-

t any regard to the navy yard.

Mr. OLIVER. In other words, a large part of the work which we ve been discussing is absolutely necessary in order to take care of e commerce?

General TAYLOR. Yes, sir; it is entirely independent of the needs

the Navv.

Colonel Roosevelt. Let me clear myself up on that. That means at there is a considerable amount of commerce up here, is there? idicating on map]. The commerce goes up to Vallejo, does it? General TAYLOR. There is a small amount of commerce up to ullejo.

Colonel Roosevelt. The main commerce, then, is away down here?

idicating on map].
General Taylor. Yes; it is through the Pinole Shoal up to these ablishments along on the east side of the bay and farther up. Note.—The commerce passing through the Pinole Shoal channel

1920 amounted to 1,302,778 tons, valued at \$36,503,808, and 885,406

ssengers.

Colonel Roosevelt. I just wanted to get that clear, because we ght meet that situation in Congress further along. Now, then, om this point [indicating], which is at the foot of the Mare Island ivy Yard, up to Vallejo there would be very little commerce.

Mr. Kelley. Vallejo is just across the river from the yard. Colonel Roosevelt. But the general said there was very little com-

erce up to Vallejo.

General Taylor. There is very little commerce that goes to Vallejo. Colonel Roosevelt. So that in here [indicating] it would be purely vy yard dredging?

General TAYLOR. Yes, sir.

Colonel Roosevelt. How much of the \$200,000 does that represent?

General Taylor. That is approximately one-half.

Colonel Roosevelt. \$100,000. In other words, half would be used r the benefit of commerce and half for the benefit of the navy rd?

General Taylor. Yes, sir.

Colonel Roosevelt. Half would be purely for the navy yard. Mr. OLIVER. The word "purely" would hardly cover it because ere is limited commerce there, not so much as on the main body, t there is a limited commerce going up there.

Colonel Roosevelt. But I doubt whether it demands the draft. Mr. Oliver. I do not think 35 feet would be necessary for the

mmerce going up to Vallejo.

Mr. Kelley. General, we are very much obliged and very much

gratified.

Colonel Roosevelt. In this connection I want to make this further statement: At Mare Island we have only one dry dock capable of holding a battleship and that dry dock will only take our two older battleships, the Delaware and the North Dakota, so we will have to build another dry dock.

Mr. Kelley. You will have to go to the Committee on Naval

Affairs to get another dry dock.

Colonel Roosevelt. I just wanted you to understand that in connection with this particular situation, and I would just like to ask Admiral Gregory how much that dry dock would cost.

Admiral Gregory. In the neighborhood of \$4,000,000.

Colonel Roosevelt. And the vard will then take from five to eight battleships, but there will have to be a new dry dock because this dry dock only takes the older battleships.

DRY DOCK FACILITIES ON THE WEST COAST, INCLUDING HAWAII,

Mr. Oliver. What dry dock facilities have you on the westen coast, including Hawaii?

Admiral Gregory. Are you referring to large dry docks!

Mr. Oliver. Yes.

Admiral Gregory. We have a large dry dock at the Puget Soud Navy Yard, Bremerton, which will take any ship we now have: the one at Mare Island, as Colonel Roosevelt has just described, is limited in capacity and can only take two of the older battleships of those that are to be retained; there is nothing south of that on the coast until you get down to Panama, except I should say Hunters Point. Hunter's Point has a dock which will take any ship we now have, and from there you jump all the way down to Balboa.

Mr. Oliver. The Navy also has some shops at Hunter's Point!

Admiral Gregory. Yes, sir.

Mr. OLIVER. And they are now in the control of the Navy for its needs?

Admiral Gregory. Yes, sir. From there you jump down to Balba

and over to Pearl Harbor.

Now, Mr. Kelley, there was one particular thing we had the other day, in regard to a destroyer base, in which you conveyed the impression that authority for that destroyer base had not been given I have looked it up and find that in the naval act of June 4. 1920. the Secretary of the Navy was authorized to accept from the city of San Diego a certain tract of land for this destroyer base.

Mr. Kelley. There is no trouble about San Diego; I was speak-

ing about Los Angeles, the submarine base.

Admiral Gregory. There were several other points which were passed over, practically new, and you do not care to hear any more about them.

Mr. Kelley. What were they? Admiral Gregory. There was one item in regard to the submit rine base at Pearl Harbor—battery storage and overhauling built ing, \$64,000—which appeared to be a new proposition. An invetigation shows that that is really an addition to the battery-charg-

building, and, therefore, is an extension, so that item should ree consideration.

hen, the other items were such things as the storage for war heads torpedoes at Dan Diego, of which we wish to increase the capacwe had an item in for \$200,000, and that one was not touched n in the hearing the other day. It is on page 121 of the bill. Ir. Kelley. I think we had all of those, as everything seems to

narked on that page one way or another.

olonel Roosevelt. Perhaps we did not have sufficient data, and

is what the Admiral is suggesting.
dmiral Gregory. All the data was furnished that we were able urnish, but that item, apparently, was passed over with so little ment that we had the impression that you were leaving it out onsideration.

[r. Kelley. Perhaps you are right. dmiral Gregory. Then, on that same page, is a proposition for

ival air station at Sand Point.

[r. Kelley. That is a new project and we will not discuss that. olonel Roosevelt. I just want to make clear that the reason why ought in my statement about the dry dock was because I wanted nake clear that the dredging of the channel would not provide tuation for handling battleships.

r. Kelley. That is, if you want to dry-dock one of your larger

olonel Roosevelt. If we want to dry-dock any of the battleships ch remain after this year at Mare Island, we must have another dock.

[r. Kelley. What is the matter with the dry dock you now have

olonel Roosevelt. At Mare Island?

[r. Kelley. Yes.

olonel Roosevelt. It is too small.

[r. Kelley. Is it too short?

olonel Roosevelt. It has a depth at mean high water to keel ks of 28 feet and 9.5 inches, and that will only take the Delae and North Dakota.

Ir. Kelley. I should say that was a very worthy project for you

ake up with the Naval Affairs Committee.

THURSDAY, MARCH 23, 1922.

OFFICE OF THE SECRETARY.

TEMENTS OF COL. THEODORE ROOSEVELT, ASSISTANT SECRE-ARY; MR. F. S. CURTIS, CHIEF CLERK; AND MR. ROY H. MOSES, SSISTANT TO THE CHIEF CLERK.

SALARIES.

Ir. Kelbey. I notice that you have some increases in salaries here. 1 are asking this year for \$75,180 as against \$72,800. Tell us re these increases come in.

Mr. Curus. The appropriation for 1922 was \$117.800, plus de

tails from other bureaus amounting to \$24,700.

Mr. Kelley. We will confine ourselves to the statutory roll for the moment. Your estimate for the statutory people amounts to \$75,180, and you have this year \$72,800. That involves either some increases in pay or an increase in the number of employees.

INCREASE IN SALARIES OF CHIEF CLERK AND PRIVATE SECRETARY TO SECRETARY.

Mr. Curtis. There is an increase in the salary of the chief der and the private secretary to the Secretary of the Navy.

Mr. Kelley. You ask to have the chief clerk's salary increase

from \$3,000 to \$5,000.

Colonel ROOSEVELT. The chief clerk, Mr. Curtis, has been with the department. first, for 10 years as appointment clerk, and then, after that, for 14 years as chief clerk. He is perfectly invaluable to us down there, and his salary now is only \$3,000. Quite a number of the other civilian employees in the department are paid higher salaries than that.

Mr. Kelley. You are recommending that his salary be increased

to \$5,000 !

Colonel Roosevelt. Yes, sir.

Mr. Kelley. You want him to have what you are receiving?

Colonel Roosevelt. Yes, sir. The majority of the other departments have more than \$3,000 for their chief clerks.

Mr. Kelley. What does the chief clerk for the War Department

get!

Mr. Curtis. \$4,000.

Mr. Kelley. Does any chief clerk that you know of get \$5,000!

Mr. Curris. No. sir; but under the reclassification they hope to go up to \$5,000.

Mr. Kelley. That is one of the troubles about this matter of fixing salaries, because they are to be fixed so soon under the reclasification bill. At what amount is this item fixed in that bill?

Mr. Curtis. At \$5,100.

Mr. Kelley. For the private secretary to the Secretary you si

an increase from \$2,500 to \$3,600.

Mr. Curtis. Mr. Denby is very much interested in that. I have statement here that will show some of the decreases we have already made.

Note.—The following is a statement showing the number of employees in a Navy Department proper at Washington on various dates from April 1, 1955 just before we entered the war, up to and including January 1, 1922, viz:

Apr.	1, 19171, 19181	98
Nov.	11, 1918	6,3
June	30, 1920	2,0
June	30, 1921	2,10
Jan.	30, 1920 30, 1921 1, 1922	1,75

It will be noted from the foregoing statement that the Navy Department reduced the number of its employees from 6,388 on November 11, 1918, to 17 on January 1, 1922, and, further, that while the number of employees increase about 700 per cent on account of the war it is now but 80 per cent greater in

^{14,000} of this number were naval reservists who were performing clerical work, such whom were afterwards given civilian appointments under the provisions of the act of July 1919.

re the war. This increase is a perfectly natural and legitimate one, caused only by the increased size of the Navy, both in material and personnel, but by its increased activities in certain lines, such as aviation and the naval service, which, as the committee is no doubt aware, is turning into the sury of the United States as miscellaneous receipts hundreds of thousands dlars each year on account of commercial radio work performed during that

showing the increase in the size of the Navy above given as one of the ons for increased clerical force, I would call your attention to the following arisons for the fiscal years 1917 and 1922:

	Fiscal year 1917.	Fiscal year 1922 (Dec. 31, 1921).
er of civilian employees in Naval Establishment. er of establishments in which civilians were employed. s and enlisted men (including reservists). in the Navy (including those under construction).	35, 265 114 57, 898 410	58, 771 205 133, 451 897

CLERICAL FORCE, SECRETARY'S OFFICE.

e Secretary's office of the Navy Department is a large office, consisting of ollowing divisions:

Secretary's immediate office, (2) Assistant Secretary's immediate office, thief clerk's office, (4) appointment division, (5) record and file division, department supply division, (7) department discursing office, (8) depart-post office, (9) quarterly survey office, inventions, and carpenter shop, following statement shows the number of employees in the Secretary's as of various dates from April 1, 1917, to March 1, 1922:

1. 1917	60
11, 1918	1 139
30, 1920	* 138
30, 1921	114
1, 1922	96

om the foregoing statement it will be noted that the Secretary's office ed a reduction in the number of its employees from 138 on June 30, 1920, on March 1, 1922, or a total of 42, and, further, that while the number ployees in the Secretary's office increased 130 per cent as compared with er cent for the entire Navy Department, it is now but 60 per cent greater before the war, this increase, as in the case of the Navy Department as ble, being a perfectly natural and legitimate one, caused by increased aces and additional work thrown on the office.

. Kelley. Let us get this straight first: You are asking for one grapher at \$1,200 instead of one at \$1,800 and one at \$1,200. want to drop out one stenographer?

CURTIS. That is due to transfers to where they happen to be

oved. There are transfers from and transfers to.

. Kelley. This one is to be transferred to the Office of Naval ligence?

. Curtis. Yes, sir.

. Kelley. Are all the other changes you have indicated here o transfers, also?

. Curtis. Yes, sir.

rty-eight of this number were naval reservists performing clerical work. reason why no decrease is shown between November 11, 1918, and June 30, 1920, because of the very large amount of work devolving upon the appointment divident to taking over into a civilian status naval reservists engaged upon work ily performed by civilian employees as provided in the act of July 11, 1919, and taking over by the record and file division of aviation files.

Mr. Kelley. You are asking for no increases in salary and f increased number of positions?

Mr. Curtis. No. sir: except those two.

TEMPORARY EMPLOYEES.

Mr. Kelley. Referring to the temporary or lump-sum force last year you had a lump sum of \$45,000, and you are asking \$58,340.

Mr. Curtis. That is due to the fact that there are indivialready there who are detailed to the Secretary's office from bureaus. The number is shown there.

Mr. Kelley. This increase in the lump sum is due to tran from other offices to yours?

Mr. Curtis. Yes, sir.

Mr. Kelley. But it does not involve any increase in pay or i

number of positions?
Mr. Curis. No., sir. On the contrary, a reduction of five tions will result.

Mr. Kelley. Where does this \$2,400 clerk come from?

Mr. Curris. From the Bureau of Construction and Repair.

Mr. Kelley. He has been carried before on the roll of the Br of Construction and Repair?

Mr. Curis. Yes, sir. I would like to insert the following. ment clearing up the matter of details of employees.

LEGISLATIVE, EXECUTIVE, AND JUDICIAL APPROPRIATION BILL, NAVY DEPART

The following is a statement of details to and from bureaus showing th all cases where bureaus have increased their estimates to take care of empl on detail from other bureaus, corresponding decreases have been made it estimates of the bureaus from which detailed; that there has been no inc in force asked by any bureau; also shows a net decrease of \$66,330.

	Statutory.	Lump sum.	To
Secretary's office: Appropriated, 1922 Plus details from other bureaus.	\$72, 800. 00	\$45, 000. 00	
Less details to other bureaus			142,
Estimated for 1923	75, 180. 00	58, 340. 00	133, 133,
Decrease			2.
Solicitor: Appropriated, 1922. Estimated, 1923.	22, 990, 00 22, 990, 00	20, 000. 00 19, 220. 00	15
Decrease			
Naval records and library: Appropriated, 1922. Estimated, 1923.	21, 000. 00 20, 000. 00	20, 000. 00 19, 000. 00	41,
Decrease			21
Judge Advocate General: Appropriated, 1922 Plus details from other bureaus	28, 810. 00	6,000.00	34. 21
Estimated, 1923.	29, 810. 00	6,000.00	37. 35.
Decrease			1.1

	Statutory.	Lump sum.	Total.
riated, 1922 ails to other bureaus.	\$25, 650, 00	\$40,000.00	\$65, 650, 00 2, 500, 00
ed, 1923	26, 650, 00	33, 920, 00	63, 150, 00 60, 570, 00
ise			2, 850.00
tions: ·fated, 1922ails to other bureaus		150, 000.00	150, 000. 00 8, 500. 00
ed, 1923	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	134, 300. 00	141, 500, 00 134, 300, 00
ise			7, 200. 00
riated, 1922ails to other bureaus	100, 010, 00	250, 000. 00	350, 010, 00 1, 400, 00
ed, 1923	101, 010. 00	248, 600. 00	348, 610. 00 349, 610. 00
se for Chief Clerk			1, 000.00
gence: inted, 1922. ails from other bureaus.	16, 500. 00	15, 000. 00	31, 500. 00 1, 800. 00
ails to other bureaus			33, 300. 00 1, 600. 00
ed; 1923.	17, 650, 00	13, 380, 00	31, 700. 00 31, 030. 00
se			670, 00
c office:			
inted, 1922d, 1923	120, 760, 00 109, 540, 00	110, 000. 00 109, 490. 00	230, 760, 00 219, 030, 00
se			11,730.00
atory: lated, 1922 d, 1923	56, 400, 00 56, 400, 00		56, 400. 00 56, 400. 00
anae: iated, 1922. d, 923.	18, 420, 00 18, 420, 00	1,500.00 1,500.00	19, 920, 00 19, 920, 00
ated, 1922	39,390.00	100,000.00	139, 390. 00 18, 120. 00
vl, 1923	36,390,00	80,000.00	121, 270, 00 116, 390, 00
50			4;880.00
and Renair; ated, 1922 ills to other bureaus	59,830.00	80,000.00	139, 830, 00 17, 340, 00
d, 1923	60,830.00	56,630.00	122,490.00 117,460.00
50			5,030.00
ated, 1922. d, 1923.	31,830.00 32,830.00	40,000.00 36,400.00	71,830,00 69,230.00
			2,600,00
Accounts: sted, 1922. ils from other Unreaus.		250,000.00	351, 430.00 2, 120.00
			353, 550.00 8, 900.00
ils to other bureaus			
d, 1923	83,700.00	245, 420.00	344,650.00 329,120.00

	Statutory.	Lump sun.	Te
Medicine and Surgery: Appropriated, 1922. Estimated, 1923.	\$24,150.00 25,150.00	\$40,000.00 37,000.00	SK ,
Dестеаче			2,1
Yards and Docks: Appropriated, 1922. Less details to other bureaus	23,690.00	50,000.00	쾫
Estimated, 1923	24,690.00	32,760.00	0 , 57,
Decrease	······ <u></u>		12.
Aeronautics: Appropriated, 1922. Plus details from other bureaus.			
Estimated, 1923.		43,310.00	4
Increase			3

	IO AND	FROM.		
	From-		To-	
	Amount.	Number.	Amount.	
ecretary's office udge Advocate General	\$6,520	5	\$24,700 2,600	
)perations ompensation board Navigation	2,500	2 7		
Office Naval Intelligence	1,600 18,120	î 15	1,800	
Sonstruction and Repair supplies and Accounts Fards and Docks	17, 340 8, 900 4, 000	15 5 3	2, 120	
Aeronautics Construction and repair of vessels	2, 400	i	40,000	
Total	71, 280	55	71, 290	
ecretary's office			' 	
olicitor Intrary olage Advocate General perations ompensation board avigation. aval Intelligence ydrographic Office aval Observatory autical Almanac ngineering onstruction and Repair rdnance ipplies and Accounts edicine and Surgery ards and Docks			ii,600	
olicitor iltriry adge Advocate General perations ompensation board avigation			3, 200	

he foregoing statement shows 55 details from or to various bureaus and es of the Navy Department, and further shows that in every case in which ncrease is estimated for in a bureau or office on account of details, a coronding decrease has been made in the estimates of other bureaus or offices account of such details. Since the preparation of the estimates on Sep-ber 4 additional details have been made to the Bureau of Aeronautics, ely: 1 at \$1,200 from Navigation, 1 at \$1,200 from Engineering, 1 at \$1,100 1 Yards and Docks, 1 at \$1,000 from Yards and Docks; and these amounts all therefore be added to the Bureau of Aeronautics and deducted from the aus from which they have been detailed.

LIBRARY, CONTINGENT EXPENSES.

Ir. Kelley. For contingent expenses, library, your current approition is \$2,000, and you are asking the same amount. Ir. Curris. That is for the library.

[r. Kelley. What is this money used for?

Ir. Curris. Principally for books. It is for technical books of We have tried to have it increased for many years, but e not succeeded.

Ir. Kelley. How many volumes are there in the library?

- Ir. Curris. I can put that in the record. It is quite a large library. \mathbf{ut} 52,000 volumes.
- Ir. Kelley. This is simply to buy technical books and periodicals? Ir. Curtis. Yes, sir.

Ir. Kelley. It is the same amount you have had for a great many ·s f

[r. Curtis. Yes, sir.

CONTINGENT EXPENSES, NAVY DEPARTMENT.

STATIONERY, FURNITURE, NEWSPAPERS, ETC.

r. Kelley. For contingent expenses for the Navy Department have an appropriation of \$75,000, and you are reducing that in estimate to \$70,000.

ir. Curris. Yes, sir. For this present year we have obligated it \$38,000 and still have \$37,000 as of March 1, 1922. We will get ugh the year all right and will probably turn \$10,000 into the asury. Last year we had \$100,000 and we turned back into the asury \$9,480. Of course, we are still drawing on the excess k of chairs, desks, and things of that kind that we had during the We do not buy any new typewriters.

r. Kelley. This is used for incidental expenses, stationery, niture, drafting materials, upkeep of automobiles, typewriters,

puting machines, postage, etc.?

r. Curtis. Yes, sir.

r. Byrnes. How much longer will your supplies of furniture typewriters last?

r. Curtis. It is pretty difficult to say, but I imagine they will out materially for a year or so yet.

r. Byrnes. For another year anyway?

r. Curtis. Yes, sir; there is a rather odd thing about the typeer situation. We are buying secondhand typewriters from the eral Supply Committee excess now. For a long time we bought typewriters at \$62.50 and used them for three years and then er changed them at an allowance of \$50 for a new machine, but since the Government has had this large excess we are compelled to us machines much longer than three years and the exchange value depreciates each year.

Mr. Kelley. This is expended under the direction of the Secre

Mr. Curtis. Yes, sir; we make the allotments. We have turned back \$5,000 worth of material to the General Supply Committee this year.

PRINTING AND BINDING.

Mr. Kelley. For printing and binding for the Navy Department

you-have an appropriation of \$250,000 this year?

Mr. Moses. We are asking the same amount for 1923. Last year we spent about \$225,000 of our appropriation of \$250,000, but we had about \$30,000 worth of uncompleted work remaining in the Printing Office on June 30, 1921, that they were unable to give s, and, of course, that was charged against the appropriation this year. The same condition will exist next June and we will start out handcapped to that extent.

Mr. Byrnes. You can count on a reduction in the cost of prim-

ing and binding, can you not, during next year?

Mr. Moses. I think there will be some slight reduction.

Mr. Byrnes. The representative of the Printing Office told on one of the subcommittees that we could count on a reduction of 15 per cent on paper and stuff of that kind that would enter into the total cost.

Mr. Moses. I know there has been some reduction already, but I

do not know how much.

Mr. Byrnes. That is what they are figuring on at the Printing Office for next year.

Mr. Moses. That would help us that much, of course.

Mr. Kelley. This \$250,000 is spent for printing for the Secre

tary's office?

Mr. Moses. No. sir; it is for printing for the entire department and for a great deal that is required by the naval establishment All of our blank forms—and millions of blank forms are requiredare printed from this.

Mr. Kelley. Can you do all of that work for \$250,000!

Mr. Moses. We do that; ves. sir.

Mr. Kelley. Do you not have another fund?

Mr. Moses. Yes. sir; in addition to that we have the repay printing

Mr. Kelley. What does that amount to?
Mr. Moses. The estimate for 1923 is \$350,000. It ran \$608,000 year, \$498,000 in 1920, \$1,050,000 in 1919, and nearly \$1,000,000 1918. This year it is estimated at \$398,000.

Mr. Byrnes. Explain that item.
Mr. Moses. Those are naval appropriations that are available printing for naval purposes. You authorize a battleship and well. the printing of the specifications, etc., out of the appropriation "(* struction and machinery." It all depends on the amount of activity in the naval service as to how much is spent.

Mr. Byrnes. I mean, where do you get your repay part of it? Mr. Moses. Well, the Printing Office does the work on our requision; they send us the bill and we pay it out of the naval appropriaons, "Construction and machinery," "Ordnance and ordnance ores," etc.; there are 20 or 30 different appropriations out of which pay for printing.

Mr. Byrnes. That makes the total amount you have available for

inting and binding what?

Mr. Moses. There is no certain amount in the naval appropriations lich we consider available for printing and binding. If you give \$100,000,000 for increase of the Navy we may use \$5,000 or \$10,000 whatever is necessary for printing. There is no limitation.

Mr. Kelley. Do you mean that if the Bureau of Supplies and Acusts places an order with you for printing they pay you for it?

Mr. Moses. No, sir; they pay the printer; he renders a bill.

Mr. Kelley. Does this \$250,000 come to you or to the printer? Mr. Moses. That is paid direct to the printer; it is a transfer of propriations on the Treasury books.

Mr. Kelley. Is \$600,000 your estimate for all the printing that is be done in the Navy Department during the coming year?

Mr. Moses. That is our estimate for the coming year.

Mr. Kelley. How is that distributed among the bureaus?

Mr. Moses. The naval appropriations are simply used as the printries required. When you authorize certain public works they need rain specifications to carry on their work and the same is true of crease of the Navy. It all depends on the amount of naval activity; fact, we have \$420,000,000 or \$430,000,000 this year, and we are only ending \$398,000 for printing, showing that we are not printing any ore than we need.

Colonel Roosevelt. We had a meeting of the council at one time d discussed the reports that were being printed; we tried to climite certain of the reports, and we did eliminate some, but instead of eating them as separate bureaus we treated them as a general probmentirely, and that is the way we have been treating the entire estion.

(Statement of savings in annual reports follows:)

Saving on annual reports.

	1920 reports.	1921 reports.	Savings.
licine and Surgery	\$2,060.72	\$947.73	\$1,112.9
nance	46, 16		119. 79 46. 10
igationrographic Office	241. 84 108. 15		241. 8 108. 1
al Observatory neering	112, 95		112.9 303.5
truction and Repair	524. 59		524. 5
Plies and Accountste Advocate General	219.06	·	12, 510. 8 219 . 0
itor ne Corps		;	84. 2 103. 2
etary's office department	4, 493. 82		3,971.4 1 299.4
Total	33,368.02		19,768.3

istimated.

Mr. Kelley. And hereafter you are going to estimate the printing for the entire Navy Department?

Colonel Roosevelt. Yes, sir; we are treating it as an entire sim

tion.

Admiral Coontral I do not think he understood you.

Mr. Kelley. Let us get it straight in the record. Was Colon Roosevelt wrong?

Admiral Coonty. We do not make an entire appropriation for the

Navy Department.

Colonel Roosevelt. No: and that is not what I meant. What meant was that we were treating it as an entire problem in tring to cut down expense.

Mr. Kelley. I am not quite clear as to just what the estimate in

printing, amounting to \$250,000, is for.

Mr. Moses. That is the printing for the Navy Department and its bureaus; millions and millions of blank forms, specifications in the purchase of millions of dollars' worth of supplies, annual reports

Mr. Kelley. And, in addition to that, they can spend out of ther other appropriations sums of money for printing?

Mr. Moses. Whatever is required for naval purposes.

Mr. Kelley. Without any limitation? Mr. Moses. Yes, sir. The most we have ever spent was \$1,000,000 and that was when we had \$2,000,000,000 available.

Mr. Kelley. You have here a statement showing the amount of pended for printing, starting with 1916?

Mr. Moses. Yes, sir.

Mr. Kelley. I think, perhaps, you had better put that in the record.

(Said statement follows:)

Comparative statement, printing and binding, Navy Department.

44.5	Repay.	Allotment.		
Year.		Available.	Expende	
1916 1947 1918 1919 1920 1921 1922 (8 months) 1923 (estimated)	\$194, 260, 00 471, 289, 04 964, 344, 75 1, 053, 197, 85 498, 192, 16 1 608, 190, 55 265, 408, 39 350, 000, 00	\$145, 000. 00 275, 000. 00 419, 229, 80 500, 000. 00 300, 000. 00 250, 000. 00 250, 000. 00 250, 000. 00	\$141,365 201,777 400,177 495,765 299,973 205,907 2176,305	

¹ The increase for 1921 over 1920 undoubtedly caused by section 11 of the act of Mar. 1, 1919, post-that all printing and binding shall be done at the Government Printing Office, except urgent work in

² This figure represents amount of work billed and nearly \$80,000 estimated work now in the Gov Printing Office not completed, leaving available unobligated balance of \$73,714.53 for the remainments of the fiscal year.

Mr. Kelley, Admiral, I take it to be the purpose of the depart ment to hereafter include in this item all the printing for the Nan Department and estimate for it in one place.

Admiral Coonty. No. sir. This is not an appropriation of money. you are not appropriating any money for this except as it goes through the various bureaus. It is not anything for which this committee appropriating any money.

Mr. Kelley. That is to say, the money is already in other approiations?

Admiral Coontz. Yes; and they pay the Public Printer through Secretary's office.

Mr. Kelley. Would it not be more business like for us to take the inting item out of the other appropriations and have you estimate r it separately?

Admiral Coontz. I think it might be seriously considered. It is a estion that never came up before and I never heard of it. This is t in our appropriation bill and we are talking about something at is not in our appropriation, but I think it is worthy of considution.

Mr. Kelley. Mr. Moses, the statement you hand me shows the tounts that have been paid by the other bureaus in addition to what u have expended?

Mr. Moses. In addition to the departmental fund; yes, sir.

Mr. Kelley. This gives not only the total expenses of the Secrey's office but of all the Navy Department?

Mr. Moses. Yes, sir; every bureau in the naval establishment. It ows all the appropriations out of which we print for the field vice.

Mr. Kelley. I think it would be a good idea to put that in the reci, too.

(Said statement follows:)

Repay printing, Navy Department.

Appropriation.	Fiscal year 1921.	Eight months of fiscal year 1922,
al supply account fund	\$6, 658. 49	\$74, 723, 41
ingent, navigation	10. 19	297.46
truction and machinery	32, 523, 99	8, 264, 41
Sportation, navigation	3, 446, 15	168, 12
miscellaneous	102, 064, 82	27, 452, 99
ention, enlisted men	16, 560, 78	3,091.49
ngent, medicine and surgery	42, 663, 33	17, 253, 40
int and miscellaneous expenses, Naval Academy	944.76	1, 246, 84
I supply account, general account of advances	96, 822, 23	1
tery and engineering exercises tenance, yards and docks	28, 270. 79	8, 984, 11
t enance, yards and docks	14, 734. 50	9, 730. 94
ance and ordnance stores	38, 473. 89	20, 153. 45
1 training station, Great Lakes	53. 38	
Base Navy, torpedo boats	4, 016. 34	2, 264. 20
neering.	24, 770. 35	7,638.12
ruction and repair	17, 164, 14	9, 312, 56
aments and supplies	10, 586, 39	9, 285. 96
Dizing Naval Reserves.	7,076.77	23, 204. 88
n and Lake Survey	67, 561. 92	5,858.86
tenance, Naval Home	71.69	39.58
tenance, supplies and accounts. tenance and repairs, Naval Academy	24, 273, 02 4, 800, 29	24, 168, 55 302, 67
lemergency fund	4,559,71	302.07
	5, 836, 06	172.60
tion	3,068,16	172.00
Planeous receipts, proceeds of sale	3,554,11	1, 197, 64
hipmen's stores, Naval Academy.	684. 72	1, 101. 01
ing and small stores fund	513, 12	1,244.84
ent and miscellaneous expenses. Hydrographic Office	5,019,27	1,011.01
nt and miscellaneous expenses, Hydrographic Office	0,020.51	75, 12
-		
Total	566,782.36	256, 101, 65
ne Corps	41, 288, 19	9, 306, 74
·		
Grand total	608, 070. 55	265, 408. 39
Monthly average	50 672. 55	33 , 176. 05
nated for full fiscal year 1922		308, 112, 60

WEDNESDAY, MARCH 24.湿

PAY, MISCELLANEOUS.

STATEMENTS OF HON. EDWIN DENBY, SECRETARY OF THEM COL. THEODORE ROOSEVELT, ASSISTANT SECRETARY: ILL CURTIS, CHIEF CLERK; ADMIRAL ROBERT E. COONTZ, CHIEN NAVAL OPERATIONS; LIEUT. COMMANDER HARRY W. HILL TO THE ADMIRAL; REAR ADMIRAL DAVID POTTER, CHIEN BUREAU OF SUPPLIES AND ACCOUNTS; CAPT. T. W. LEUTA, SISTANT; MR. CLYDE REED, SPECIAL ASSISTANT; REAL MIRAL JOHN K. ROBISON, CHIEF OF BUREAU OF ENGINEER CAPT. GEORGE W. STEELE, JR., BUREAU OF NAVIGATION; LUKE MCNAMEE, INTELLIGENCE DIVISION; COMMANDER NOYES, OFFICE DIRECTOR NAVAL COMMUNICATIONS; REAL MIRAL J. L. LATIMER, JUDGE ADVOCATE GENERAL; ADMINISTER G. J. ROWCLIFF.

COMMISSIONS AND INTEREST, TRANSPORTATION OF FUNDS, EXCEL

Mr. Kelley. Pay, miscellaneous: For commissions and intect. This item covers a long list of purposes for which last you had \$3,500,000. What is your revised estimate this year Admiral Potter. \$3,255,000. I am charged with subheads 9, and 11.

Mr. Kelley. Suppose we go right down the list and sand in the different officers as we reach the various items.

Admiral Potter. Shall I go ahead with subhead 1?

Mr. Kelley. Yes.

Admiral Potter. This subhead is chargeable with losses on be exchange and with adjustments from the purchase rate of focurrencies to the Treasury issue rate. It is creditable with son exchange."

Under a decision of the Comptroller of the Treasury dated ruary 28, 1921, the Navy has authority to purchase and issue for depreciated paper currency at the actual cost to the United S It must, however, in the case of countries still on their normal or silver basis, issue such currencies at the mint par value.

The country in which gains or losses on exchange are most quently incurred is China. The Treasury Department sets a monthly for the issue of Chinese, Mexican, Yuan, and Hong dollars. This rate is based on the average commercial price of bullion. The rate at which this currency is purchased is of c fixed by the supply and demand between China and the U States for commercial credit. Apparently from July 1 to dat cost to the United States per unit of these currencies has been gethan the issue rate fixed by the Treasury, and therefore has resin an average loss chargeable to subhead 1 of this appropriation

ne following table shows the nina set monthly by the Treas		Mexican

November	\$0.5631
Dec ember	. 5395
anuary	. 5224
'ebruary	. 5171
December	. 5187

erally speaking, there should always be a net loss chargeable subhead for the reason that, as foreign currencies are based metal contained as compared to United States currency, a naturally charge a premium in purchasing bills of exchange amount sufficient to cover the interest on the money tied up in date of purchase and date of liquidation of a bill of experiments. Furthermore, this subhead is chargeable with any loss on age due to sale of foreign currency before a ship leaves the y in which it is current. That losses on exchange have been reduced is apparent from the following—

Kelley. That is \$100,000?

niral Potter. Yes, sir. I have a statement which shows how as run during the past three years. In 1919 it was almost 000; in 1920 it was again almost \$2,000,000; in 1921 it was 10, in round numbers; and in 1922 it looks as though it will 0,000.

KELLEY. If silver should become more valuable you would not nything; is that right?

iral Potter. If you care to construe it in that manner.

KELLEY. Is not that the secret of this thing, that when silver wyou had to make up the difference?

niral Potter. The Treasury fixes the rate at which we can our issues. However, we have to purchase it for what it costs

If a ven costs 60 cents we must issue it at 53 cents, according asury Department regulations, and hence there would be

n every piece of money handed out.

KELLEY. That is to say, the boys who convert their money ninese money, we will say, on the basis of a fixed regulation, lose money if the price of silver were higher than when you your regulation, and you would have to make up the dif-

iral Potter. That is what it amounts to; yes, sir.

MILEAGE TO OFFICERS.

Kelley. The next is mileage to officers. ain Steele. The current allotment for the subhead 2 is 0. The Bureau of Navigation requested \$700,000, because in al year 1921 \$780,000 was expended under that subhead; but dget officer has allocated \$650,000 under the estimates for

Kelley. Does this cover the entire clause contained in the ding:

te to officers of the Navy and Naval Reservé Force while traveling ders in the United States, and for actual personal expenses of officers Savy and Naval Reserve Force while traveling abroad under orders, traveling expenses of civilian employees, and for mileage, at 5 cents to midshipmen entering the Naval Academy while proceeding from mes to the Naval Academy for examination and appointment as mid-

Admiral Potter. No. sir: subhead No. 2 does not include the traveling expenses of civilian employees.

Mr. Kelley. One part taken out of that clause is for the traveling

expenses of civilian employees!

Captain Steele, Yes, sir; but it includes the traveling expense of female nurses.

Mr. Kelley. There is a clause ending with the word "midshipmen." Have you a copy of the bill before you!

Captain Steele. No. sir; I have not.

Admiral Coontz. That subhead stops after the words "female nurses."

Mr. Kelley. Mileage to officers of the Navy and Naval Reserve Force while traveling under orders in the United States. How much is that?

Captain Steele. We have not that split up, Mr. Kelley.

Mr. Kelley. What are the details of the \$650,000 as you have worked them out?

Captain Steele. I have no statement showing what part of these requires certain sums; I only have the total that we expended in the year 1921.

Mr. Kelley. And that was \$780,000?

Captain STEELE. Yes, sir.

Mr. Kelley. And you are making a reduction, based on some economies you have put into effect, perhaps, since then—is that the idea?

Captain Steele. Yes, sir. We have reduced the travel of all officers and others to a minimum and have utilized Government transportation to the fullest extent.

NUMBER OF REGULAR OFFICERS 1921.

Mr. Kelley. Do you remember how many regular officers you had in the Navy in 1921?

Captain Steele. Yes, sir; we had about 5,300; at least, that would

be an average.

Mr. Keller. I suppose that included the reserve officers you had on active duty at that time?

Captain Steele. No, sir; that would include the temporary officers

of which we dispensed with about 1.100 last December.

Mr. Kelley. Then you had 5,300 line officers, and how many staff officers?

Captain Steele. There has been very little change in the staff officers, sir.

Mr. Kelley. Then about 2,000?

Captain Steele. Yes. sir; and about 1,300 warrant officers, line and staff.

Mr. OLIVER. When did you dispense with 1,100—last December! Captain Steele. The temporary officers were all relieved from duty the 31st of December, but we began dispensing with their services—

Mr. Oliver (interposing). Do you happen to know whether or not they were estimated for in the Budget of 1923?

Captain STEELE. They were not, sir.

Mr. OLIVER. In other words, you had communicated the fact that 1 intended to dispense with them and they were not included in Budget estimate for 1923?

Admiral Coonty. It was by operation of law.

Mr. Kelley. The law provided that on a certain date you might te over a certain number, not to exceed a certain number, and that others would have to be discharged?

Admiral Coontz. Yes, sir.

Secretary Denby. Not to exceed 1,200.

Ir. Kelley. Does this include commissioned and warrant officers en they travel?

'aptain Steele. Yes, sir.

Ar. Kelley. How many of those did you have in 1921?

Captain Steele. Eight thousand seven hundred and twenty-one on y 1, 1921.

Ir. Kelley. You can put that in accurately, but for the purposes calculation, can you give us offhand how many there were?

Admiral Coontz. We increased them because some went back to rrant officers; my guess would be about 1,200 in 1921 and 1,360

v. Is not that right? aptain Steele. That is fairly accurate, I think, sir.

Ir. Kelley. That is, there would be 1,200 in 1921 and more now?

laptain Steele. Yes, sir.

Ir. OLIVER. Admiral Coontz, state whether or not you feel the ds of the Navy will be fully met with some diminution in your sonnel in the warrant grades and petty officer grades.

Admiral County. That would be entirely for Admiral Washington, o is in entire charge of the business, to discuss with you, and I do know. I will have to make an inquiry and put an answer in the ord.

Mr. Oliver. I wish you would. Admiral Coontz. Very well.

IOTE.—After consulting with Admiral Washington, I find that we have just ut enough boatswains (when I say boatswains I include chief boatswains; I so for gunners, etc.). There is a small excess of ordnance gunners, but this l be reduced by the probable retirement of ex-gunners, who were commissioned lieutenants after fifteen years service. There is also an excess of electrical mers, but a considerable shortage in radio gunners. The number of carters and pharmacists is slightly in excess of the requirements. The number of particular is about correct. We are short of mechinists pay clerks is about correct. We are short of machinists.

o much for the warrant officers. The service has an excess of petty officers, ng to the large number which were rated for service on auxiliary and other sels during the war and the many vessels placed out of commission since the

nistice.

Mr. Kelley. This coming year the number of officers of the line is

Admiral Coontz. Four thousand one hundred and four hundred, I

Mr. Kelley. Four thousand one hundred in round numbers?

Admiral Coontr. Yes.

Mr. Kelley. There are 4,100 of the line, and you say there are) more, which would make 4.500?

Admiral Coontz. Yes, sir.

Mr. Kelley. Including the naval auxiliary service?

Captain Steele. Yes, sir.

Mr. Kelley. If we take out those 400, that would make 4,100 you say 2,000 in the staff, which would make 6,100, and you tl Admiral, the warrant grades would now be higher?

Admiral Coonty. Yes: I think they would be much higher:

guess would be about 1,360 against 1,200.

Mr. Kelley. \$700,000, that was the actual expense for this last year?

Captain Steele. \$730,000.

Mr. Kelley. Based on an estimate of 8,500?

Captain Steele. Yes, sir.

Mr. Kelley. This would run up to about 7,900 for the cor year, and you have made the deduction of about the ratio that t figures would bear to each other?

Captain Steele. Practically; yes, sir.

Mr. Byrnes. You have made a reduction of \$80,000?

Captain Steele. From \$730,000 to \$650,000.

Mr. Byrnes. That is due to the reduction in the number and me any economies that were effected?

Captain Steele. The Bureau of Navigation requested \$700,000 the Budget officer allocated \$650,000.

Mr. Kelley. And your estimate now is \$600,000? Admiral Coontz. No: \$650,000.

Captain Steele. \$650,000.

Admiral County. The Budget officer made that reduction a going into the situation very carefully, the officers, conditions, everything, and reduced it that much.

Secretary Denby. The reduction of personnel would not rethe mileage during the period the reduction was taking place. cause you have to bring the men home—the transportation.

Mr. Kelly. You will probably bring the ships home?

Secretary Denby. Even then they would have to be sent to the home cities.

Mr. Kelley. These are officers?

Secretary Denby. But they have to be gotten to other duty for these decommissioned ships.

Mr. Kelley. They are not discharged?

Secretary Denby. But should there be a heavy reduction in the men they have to be gotten home.

Mr. Kelley. There is not any reduction to be made except w

has already been made.

Mr. Byrnes. I think there is a misunderstanding. The Secret thinks that we are talking about men. We are discussing only officers, in which there is no reduction proposed.

Admiral Coonty. The final number is 8,018 officers and war

officers for the year.

Mr. Kelley. Admiral, how do you handle these assignment the officers with a view to effecting the greatest economy and

carry out your plans of operation?

Admiral County. The method is, as far as possible, to order officers to as short distances as possible, and also, in the travel fi the Pacific to the Atlantic and from the Atlantic to the Pacific send them by Government transports whenever possible. A major

f the fleet is now in the Pacific, and the homes of the officers and men are in the East. Also, the center of population is still east of For that reason it is a little unbalanced. If he Mississippi River. nost of them lived west of the center of Kansas it would be different, ut we move them all we can by public transports. Whenever we an we send an officer on a ship making the trip. The other day we ad to send an officer to Charleston. We had a destroyer going from hiladelphia to Charleston and we sent the officer to Philadelphia o that ship. We are watching the mileage with the utmost care nd every tendency to economy.

TRAVELING EXPENSES, CIVILIAN EMPLOYEES.

Mr. Kelley. The next item is, "Traveling expenses of civilian mplovees "?

Mr. Curtis. The allotment is \$270,000. For this reason, in July 1e Secretary sent out a warning-

The appropriation "Travel expenses of civil employees" will not be suffient to cover the cost of travel of civilian employees during the fiscal year 22 unless the department exercises rigid economy in travel expenses and at no travel be performed except that which is absolutely necessary. In is connection the department desires to most forcefully emphasize that the 'in "absolutely necessary" shall not be used to cover things needed merely the purpose of desirability or convenience.

The expenditures up to January 31 amounted to \$131,000. That eves a balance of \$139,000, which would indicate that we can get rough the year all right. For 1923 they reduced the estimated lotment to \$240.000.

Mr. Kelley. What are these civilian employees mostly?
Mr. Curtis. They are mostly draftsment and technical employees no have to go out for inspection purposes.

Mr. Kelley. Will not that fall off quite a bit the coming year

cause of the reduction in the building program?

Mr. Curtis. We have anticipated that cut by taking off \$30,000 our estimate. As to whether it will be greater than that, we can •t tell at the present time.

Mr. Kelley. I suppose that possibly the scrapping and all that

111 make inspection and travel quite necessary?

Admiral Coontz. Yes, sir; for a year or two. While under the rms of the treaty we are scrapping, this travel would have to be rried on. In addition, there are some things that will keep on. ke, for instance, repairs to radio installation. A tower blows wn, and we would probably send the people from the nearest ation to repair it:

Mr. Kelley. That is what you had in mind, that there would be a

rinkage in the demand for the technical people?

Admiral Coontz. Yes, sir; at the time we put that in.

Mr. Kelley. With the broader light, showing the path a little earer, possibly you can reduce it a little further?

Admiral Coontz. No. sir; I do not think so. We cut it down as far

we thought we could do with safety.

Mr. Kelley. Have you the figures showing the travel expense of vilian employees in 1916?

Mr. Curtis. No, sir. I can introduce that into the record, be we make the report every year. For 1916 as compared with the year ?

Mr. Kelley. If you please.

Mr. Reed. I have it not at hand.

Mr. Kelley. You can put it in the record? Mr. Curtis. Yes, sir.

Note.—For 1916, \$60,934.12; for 1921, \$405.169.16.

Mr. Kelley. Of course, the rate of transportation is higher it was in 1916, and I well understand that for a few months at any there might be quite a bit of travel.

Mr. Byrnes. In making the reduction you could not judge travel that might be necessary in connection with the scrapping

Admiral Cooxtz. I will say positively that I went over this: on the 3d of March and cut it down to \$240,000.

Mr. Kelley. You went carefully over the travel when you to the \$30,000?

Admiral Coontz. Yes, sir.

Mr. Kelley. You have industrial plants all over the country work going on?

Admiral Coontz. Yes, sir.

Mr. Kelley. And you have to have inspectors go there and after that?

Admiral Coonty. There is more or less travel which we just a

Commander Hill. There is so much unknown. In the first p the treaty has not yet been ratified and the stoppage has been temporary. We do not know how much travel will be needed.

Mr. Kelley. This is open at both ends just yet?

Commander Hill. Yes, sir.

Mr. Kelley. Is there anything else, Mr. Curtis?

Mr. Curtis. I have three other items that will come later, but is all on this item.

ACTUAL EXPENSES OF OFFICERS WHILE ON SHORE PATROL DUTY, HIL LAUNCHES, ETC.

Mr. Kelley, "Actual expenses of officers while on shore page 18.

duty "?

Admiral Potter. That is assigned to me, together with hir launches or other small boats in Asiatic waters, relief of vesse distress, recovery of valuables from shipwrecks, quarantine expe claims for damages for loss of property, ferriage, tolls-street fares—and other necessary and incidental expenses.

Mr. Kelley. How much is that?

Admiral Potter. The total we have estimated for is \$300,000.

Mr. Kelley. That is quite a different classification?

Admiral Potter. Yes, sir; it is a catchall. That is subhere It is a catchall for what you can not classify elsewhere, but be assembled somewhere. Without too much clerical labor we for it impracticable to submit any detailed distinction between different groups and they are assembled under subhead 11.

Mr. Kelley. How much is that?

Admiral Potter. \$300,000 we estimate. In 1921 the actual exenditure was two hundred and eighty-three and odd thousand ollars, and in this present year it is running \$400,000, but undoubtlly there will be a considerable diminution next year, and we have stimated \$300,000. Each one of these has a voucher; there are nousands of them. We have not tried to list them here.

Mr. Kelley. It seems a little odd that these items will cost more

ext year than in 1921.

Admiral Potter. There is a slight margin, of course, between the 283,000 and \$300,000, but we just followed that because these exenses will not probably be diminished, and the expenses of officers n shore patrol duty have been very heavy on the west coast, around an Diego base, where they have to patrol the shore every day. hat is just an estimate. All you can do is to guess at it; you can not retend to be accurate.

RENT OF BUILDINGS AND OFFICES NOT IN NAVY YARDS.

Mr. Kelley. The next item is "For rent of buildings and offices

ot in navy yards."

Admiral Porrer. In 1921 we had \$590,000 and for the present ear \$300,000. With the economies effected since March 4 last, we re estimating for 1923, \$180,000. I have that in detail.

Mr. Kelley. You have that in detail?

Admiral Potter. Yes, sir; showing each section of the country;

fact, I have every building listed and its purpose.

Admiral Coont. We have gone into that with the greatest care, d wherever we have been able to obtain a Government building we ve done so.

Mr. Kelley. What is the chief item?

Admiral Potter. I can pick out two or three. Suppose I read a six or seven items in the third naval district, New York. One Dusand two hundred and fifteen linear feet of bulkhead space for e of Navy suppy depot, \$21,000, in round numbers. Then we have a y, that is one section of an aircraft storehouse, which is used, hower, as boat storage. That is \$7,000. Then there is land on which rehouses 1 and 2 are located, between Thirtieth and Thirty-third reets, South Brooklyn, \$46,000. Some land bounded by Second Cl Third Avenues, Thirty-first and Thirty-second Streets, known Bush "third lot," \$20,000. Then there is the garage at Taylor reet, \$14,000. Then there is space used by the Naval Medical Det. South Brooklyn, \$9,000, and office of the inspection board up the town, \$1,600.

Admiral Coonty. We have succeeded in obtaining space for the

Ird district offices in the South Ferry building free of rent.

Mr. Kelley. How did you happen to get that for nothing?

Admiral Coonty. New York City is kind to us. I would state at I went up to New York myself as Budget officer and went over of these buildings about six months ago. We have come down to is estimate of \$180,000 for next year from \$3,250,000 three years . We hope that from month to month we can do better. We we every rented building under constant surveillance and are conrually trying to see if we can not get other free buildings from **b** post office or something like that.

Mr. Kelley. This does not include the recruiting service? Admiral Coontz. No, sir.

Mr. Kelley. There is a special appropriation for that: it α out of training and recruiting?

Admiral Coontz. Yes, sir.

PRISONERS AND PRISONS.

Mr. Kelley. The next item is, "Prisoners and prisons?" Commander Hill. The prisoners are in prisons at Portsmo Parris Island. Mare Island, and some out at Cavite. This co all the cost of heating and lighting those places. It covers all cost of the prisoners, small stores, clothing outfits, and their tr portation to and from the prisons, and the outfit of civilian clot that they are given on discharge, etc. For instance, we had Newport investigation that took place a year ago and the cost. w is charged against this appropriation, was about thirty or f thousand dollars. In other words, all of these items on pav. mi laneous, are a sort of catchall; they are all small things that not be estimated for exactly.

Mr. Kelley. How much did you spend in 1921 for this purpos Commander HILL. I will have to put that in the record.

Admiral Potter. In 1921 we spent \$460.250.08.

Mr. Kelley. How much have you spent so far this year? Mr. Reed. Up to the 1st of March, \$177,140.96.

Admiral Potter. The total allowance for the year was \$245.00 Mr. Kelley. You have made the reduction then on the sm number of men?

Commander Hill. Yes, sir; the number of prisoners is about 1 On the last count it was 1.346 or 1.350, roughly. That is decrease There is a certain amount of this appropriation that will go d with the number of prisoners. There is a certain amount of t overhead, which, if we had no prisoners, we would still have pay—maintaining heat and light. They are fixed charges; and t the cost of investigations, which may run as high as \$30,000 \$40,000.

Mr. Kelley. When they are discharged, if it is an honorable

charge, you give them a civilian suit of clothing?

Commander Hill. Yes, sir; a civilian outfit that has been cost about \$20. They are now reducing that and they have gotten it & to \$15 and hope to reduce it to \$12 by taking old clothes and renor ing them in the installation they have at Portsmouth.

Secretary Denby. I hope the number of prisoners will go down

Mr. Kelley. You can control that, Mr. Secretary?

Secretary Denby. Yes, sir; to a certain extent. I have issued order, for example, that no man under 18 years of age, who des shall undergo a prison sentence or get a dishonorable discharge the Navy is going to take in men under 18 years of age, I do! propose to see them undergo a prison sentence if they desert. will help some.

NEWSPAPERS, PERIODICALS, AND ADVERTISING.

Mr. Kelley. The next item is newspapers, periodicals, and add tising.

Mr. Curis. That is an item of \$20,000, advertising, \$6,000; and **rio**dicals, \$14,000.

Mr. Kelley. What are these—technical papers?
Mr. Curtis. Technical papers for all of the various bureaus, Mediae and Surgery, Ordnance, Yards and Docks, Supplies and Acunts—all of them. The advertising is in a manner perfunctory quired by law.

Mr. Kelley. Is this the only fund out of which periodicals and

wspapers can be purchased for the whole department?

Mr. Curris. There is a small fund for the library. Mr. Kelley. Then, this is the only money available?

Mr. Curtis. Yes, sir.

Mr. Kelley. The item of newspapers does not mean the ordinary wspaper, does it?

Mr. Curtis. No; not very many newspapers.

Mr. Kelley. Mostly periodicals and technical publications?

Mr. Curtis. Yes, sir.

Mr. Kelley. How much was this last year?

Mr. Curtis. Mr. Reed tells me that we spent \$22,000 for the two ms last year. For advertising up to December 31 we have spent ,000. For periodicals we have obligated \$12,000. For 1923 we ve estimated \$18,000 instead of \$20,000 for the two items.

Admiral Coontz. We gave that a straight reduction of 10 per cent r the coming year along the general line that we would not need it.

ST OF SUITS, COMMISSIONS, WARRANTS, DIPLOMAS, DISCHARGES, ETC.

Mr. Kelley. The next item is copying, costs of suits, commissions, urrants, diplomas, and discharges; stationery and recording; rerts, professional investigations, religious books; cost of special

struction at home. Captain Steele. The estimate for 1923 calls for \$147,000 under It subhead, of which \$117,000 is for the cost of special instruction home to be expended under the postgraduate school of the Naval *demy. The remaining \$30,000 is for the other items under that head. The postgraduate school estimated \$143,000, which has **n** reduced to \$117,000.

Tr. Kelley. The bulk of the item is for the postgraduate school?

aptain Steele. Yes, sir.

Tr. Byrnes. How is that school conducted? "Cost of instruction

Lome "—what do you mean by that?

aptain Steele. That is differentiated from the cost of instruca broad, which comes under Captain McNamee's office. These Lents go to the Naval Academy for one year and then go to various eges, of which I have a list.

Tr. Byrnes. For postgraduate work? aptain Steele. Yes, sir.

dmiral Coontz. I would like to state that out of the last 20 classes he academy 11 of them were prematurely graduated and we feel b we should give these officers further instruction, not only in what missed, but in the great advances being made all the time.

Tr. Byrnes. Do I understand that you send them to other educa-

al institutions throughout the country?

aptain Steele. Yes, sir.

Mr. Byrnes. Technical schools!

Captain Steele. We have 22 at Columbia University, 6 a University of Chicago, 35 at the Massachusetts Institute of Inology, 4 at Harvard, 6 at the Van Rensselaer Institute, 3 a University of Michigan, 4 taking special courses, and 8 at the Gawashington University. I also have what they are studying t

Mr. Byrnes. What are they studying at the George Washir

University!

Captain Steele. Law. They are assigned to duty in the offithe Judge Advocate General and are taking a course in law a George Washington University.

Secretary Densy. In Michigan they study marine engineerin Captain Steele. Ordnance chemical engineering—that is, e.

sives.

Mr. Byrnes. A man graduates from the Naval Academy and send him to the University of Michigan to study ordnance?

Captain Stelle. Explosives; yes, sir.

Mr. Kelley. Does this include any postgraduate instruction

doctors?

Captain STEELE. It does not.

Mr. Kelley. Why does not the Staff Corps get any specia

struction?

Captain Steele. They get special instruction in the Naval Me School in Washington, and occasionally an officer of the Me Corps is sent to the Mayo Clinic in Minnesota.

Mr. Kelley. What fund is that paid out of?

Captain Steele. That is paid out of a fund controlled by med and surgery.

COST OF SPECIAL INSTRUCTION ABROAD.

Mr. Kelley. For cost of special instruction abroad you are as \$150,000?

Captain McNamee. Yes, sir. Mr. Kelley. What is this for?

Captain McNamee. The items under that are for maintenam students and attachés, \$95,000; \$25,000 for office expenses, and \$4 for the confidential fund.

Mr. Kelley. What is that first amount?

Captain McNamee. \$95,000 is for the maintenance of attacks Mr. Kelley. And students. It is mostly attaches?

Captain McNamee. Yes, sir.

Mr. Kelley. Will we have any students abroad?

Captain McNamee. We now have three students in Japan. I are language students, and we would like to have some money send students to China.

Mr. Kelley. The primary purpose in sending students about

to learn foreign languages?

Captain McNamee. Yes, sir. They are supposed to stay three years, and then they become proficient in the language. Secretary Denby. Do they also study technical matters?

('aptain McNamee. Incidentally, but they are there primark learn the language in order to fit themselves for their work intelligence officers and as attachés abroad. It is essential that

en sent to those countries should know the languages of the untries to which they go. Otherwise, they will be very much ı**n**dicapped.

Mr. Kelley. How many people are in the Office of Naval Intelli-

nce down there?

Captain McNamee. We have 9 officers, 23 clerks, and 3 messengers.

ICE WATER.

Mr. Kelley. The next item is ice water.

Admiral Potter. That is simply a question of what officers there e. In 1921 we spent \$86,521, and in the present fiscal year we are ending \$65,000, or that amount has been allotted, and it looks though that would just about run us through. For 1923 we are king \$60,000. Of course, if the activities are diminished, or if any ards and offices should be closed, this item could be cut down cor-

Mr. Kelley. Do they use all this ice water in the Navy Depart-

Admiral Potter. In the Navy Department and the Yards. It sees not include the hospitals. We have actually diminished that spenditure. We have cut down the requisitions as they have come , and have told them, "you can not have as much ice as you had st month." Even at Key West we have cut down on this item, and e received a vehement protest from the commandant at Key West, cause they have hot weather there all the time.

TELEPHONE AND TELEGRAPH SERVICE.

Mr. Kelley. For telephone, telegraph, and cable service you are ting how much?

Commander Noves. We are asking \$300,000. We have for this 11 \$322,000, which you gentlemen have just increased in the deency bill from the original \$250,000. For 1921 we had \$554,000,

1920 we had \$1,002,000; for 1919 we had \$1,439,000, and for

8 we had \$903,000.

Ir. Kelley. What did you have for 1916? Commander Noves. The figures that we have for 1916 are (1),(000), but this item was not carried in the same way then. In lition to that, telephone rentals and tolls have been increased ctically 50 per cent since that time by public service commissions I telegraph rates have been correspondingly increased by the Post-

Ir. Kelley. But you did not have any radio to speak of then. I now you are using four or five million dollars a year for radio

Commander Noyes. We went into that question in the other hears. and Admiral Robison gave you the figures. We had radio wice then.

• Ir. Kelley. But it was a very small amount compared with what ■ have now?

Ir. Byrnes. How much have you spent up to this time out of s year's appropriation!

Commander Noves. We are spending at the rate of \$322,000. It has all been allotted.

Mr. Byrnes. You estimate \$300,000 for next year?

Commander Noves. Yes, sir; which will be a further reduction of \$22,000 from this year.

Mr. Kelley. Why do you not use radio more? Commander Noves. We are using it all we can. There is no further reduction that we can make on that account. We never be wires where we can use radio; but, of course, it is becoming more difficult to use radio, due to increased use by commercial and private interests.

Mr. Kelley. How much of this is for telephone service, how much for telegrams, and how much for cablegrams?

Estimate for 1923.	
Telephone: Rentals Local calls Long-distance calls Telegraph	38, 383. 2 22, 605. 3
Total	302, 263. £

TELEPHONE RENTALS.

Commander Noves. \$140,000 is for telephone rentals. cludes the rental of all telephone plants in all the naval establish ments. Of course, we have none on board ships, but all of this is a shore. It includes the rental of wires.

Mr. Kelley. How much do you estimate for the rental of wires! Commander Noves, \$48,000 for telegraph and telephone wires.

Mr. Kelley. Could we not cancel the leases on those wires now and get along with that much less telephone and telegraph service!

Commander Noves. Apparently not. The Secretary has made every effort to reduce the amount of dispatch work and the use of tele grams.

Mr. Kelley. I think we might get rid of these special wires, now

that the war is over.

Secretary Denby. Can you tell how much these special wires at

Commander Noyes. Yes, sir.

Mr. Kelley. I have no doubt they are used very extensively. will be so long as it does not cost any more. It does not make an difference whether you send 500 telegrams or 1,000, because the cost would be the same on the leased wires.

Commander Noves. Yes, sir.

Mr. Kelley. Therefore the officers will use those wires very tensively instead of the mails.

Secretary Denby. We have a very stringent order about that

Mr. Kelley. Where they have leased wires it does not make # difference how many telegrams they send, because the cost is no more

Commander Noves. It is not a matter of general knowledge the Navy Department, and we do not intend that it shall be a matter of general knowledge, where the leased wires are, and each but and office is debited on a monthly report with the same amount dispatch service charges furnished by the naval communications **≥ervice** when they use the leased wire as when they use other wires. The charge against them over the leased wire is the same as over **: he** commercial lines.

Mr. Kelley. Do you think they are as economical in the use of the

wires as they would be if you did not have these leased wires?

Commander Noves. Yes, sir. We have reached the point in cuting down now where several instances of loss have occurred. For nstance, by using a letter instead of a telegram in the acceptance f a bid several thousand dollars has been wasted because the letter as too late to catch the market on the bid.

Mr. Byrnes. That would be unwise economy, but I have no doubt ant you use the service in other places where it could be dispensed

Commander Noves. We have made every effort to cut it down. here have been several examples of loss due to too great reductions. mother case was in connection with the renting of a recruiting Fice, and there we could have saved several thousand dollars in the may of cheaper rents, but because of handling the matter by letter

was impossible to close the lease.

Admiral Coontz. I went into this matter very thoroughly as rudget officer to see if it could be cut down further. We finally me to the conclusion that while there might me a few more mesages sent over these wires, but not very many more, there was a reat military advantage gained by being able to talk to Norfolk very day promptly when the occasion arose, and in that way to ttle big questions without loss of time. In view of all the circumtainces, we brought this down as low as we could. When you take to consideration the fact that they have come down from over 1,000,000 to \$300,000, I think you will agree that this is a pretty ▶w figure.

Mr. OLIVER. I do not think they should be required to cut to the stent of losing money on account of bids where a prompt accept-

nce should be made.

Commander Noyes. That is evidence of the fact that the cuts

ne been too drastic.

Mr. Kelley. Will the telephone and telegraph service be increased r diminished by reason of the division of the fleet?

Commander Noyes. Will it be increased through the division of

he fleet!

Mr. Kelley. I mean when the bulk of the fleet will be in the acific!

Commander Noves. It must increase it. Mr. Kelley. Where are the leased wires?

Commander Noyes. There is one from Norfolk to Washington, and one from Washington to Boston and Portsmouth via Philadelhia, New York, New London, and Newport.

CLERICAL, INSPECTION, AND MESSENGER SERVICE.

Mr. Kelley. For clerical labor charged on rolls you have \$700,000?

Mr. Curtis. That was \$750,000 for this year.

Mr. Kelley. What is that for! Mr. Curtis. That is for clerical service all over the world and in De navy yards. We have furnished the committee with a detailed atement showing how it is divided up in every way.

Mr. Kelley. This includes your clerical help in the commandans offices!

Mr. Curtis. No. sir: that is in the yards, labor boards, inspection boards, the general board, communciation offices, and district offices

Mr. Kelley. This includes all the clerical help in the commandants' offices at the yards and stations, and all the clerical help for the different boards that are operating for the Navy?

Mr. Curris. Yes, sir. All under "Pay, miscellaneous."

Mr. Kelley. Is that all it includes?
Mr. Curtis. Yes, sir.
Mr. Kelley. It does not include any inspection service. drafting service, or civilian employees, laborers on grounds, or aything of that kind, but it is just for the office help in the commandants' offices and clerks for the various boards?

Mr. Curtis. Yes, sir. Last year we spent \$990,000 for that purpose, and this year we have \$750,000. We will use most of it up this

year.

Mr. Byrnes. How much will you use this year?

Mr. Curtis. About \$600,000. The total pay based on a 6-day week would be \$706,000 at the navy yards. We have reduced this to a 5-day week, and cut down the expenditure to about \$643,000.

Mr. Byrnes. Why do you ask \$700,000 for next year?

Mr. Curtis. We hope to get back to the 6-day week. week is bad business, but we were forced to do that on account of the great reduction.

Mr. Kelley. You would not have so many clerks if you did that. Mr. Byrnes. You would have fewer clerks and would do more work.

Mr. Kelley. If you worked six days a week, you would not want as many clerks as you would when working five days a week.

Mr. Curris. The trouble about the 5-day week is that it cuts the pay down to such an extent that a great many of the good clerks try to get out into other employments.

Mr. Byrnes. And the clerk who is satisfied with less compense

tion for a fewer days work will stay and loaf?

Admiral Coontz. A certain number of them have worked six days a week, just as they do here at Washington?

Mr. Curtis. Yes, sir.

Admiral Coontz. This amount involves a 6-day week for all the boards, offices, and outlying stations, including Pearl Harbor, and five and a half days for other establishments, and a 6-day week for telephone and telegraph operators. That brought this amount w \$706,822, but we hope to get by with \$700,000. We are using for this purpose \$769,000 this year.

Mr. Curtis. That is what we paid out last year. Mr. Kelley. This year it will cost how much?

Mr. Curtis. \$643,000.

Mr. Kelley. You want to increase it for next year. I thought you were coming down.

Mr. ('URTIS. That \$643,000 is on account of the 5-day week.

Mr. Reed. If the commandants' offices are going on a 6-day week it would increase the volume of work more and more in some other activities, where the output is dependent altogether upon the activity of the commandants' offices.

Mr. Kelley. There will not be any great activities at the navy ards, and I think it is pretty nearly time that everybody stopped oft pedaling on the question of what the vards will do. Everybody ad as well understand that when we scrap 15 or sixteen of the readnaughts and then discontinue work on the new construction hat is now going on, the navy yards can not go forward employ. ng the same number of men and the same number of clerks that hey have had heretofore. You can use plain common intelligence n that proposition, because, otherwise, we will be making trouble or ourselves. We have had delegations down here from nearly all f those towns, and we are simply pushing the thing along in front f us, while one good, swift kick would end it.

Commander Hill. If that cut should be made, it would not cut he whole \$700,000. It would only cut the part that is in the navy

ards, which is only, roughly, \$210,000.

Mr. Kelley. Some of this is outside of the navy yards. How bout these 25 at the first naval district? Will you need them next

Commander Hill. The districts will require a total of about 227,000. We made a very careful analysis of the districts where ll of that money goes. That is not district work, but it is head-uarters work. It is mostly work at the district headquarters for the eserve forces, which are grouped geographically.

Mr. Kelley. In the commandant's office in Boston you have 7

nd in the district headquarters you have 25.

Commander Hill. Yes, sir; those 25 are doing reserve force work. Mr. Kelley. The whole district business there is in the Boston ard, is it not?

Commander HILL. Yes, sir; it is all in the Boston yard.

Mr. Kelley. It seems to me that 25 people outside of the yard, ith only 7 people required in the yard to do the clerical work, is nreasonable.

Commander Hill. They are all in the yard.

Mr. Kelley. Nearly all of those little activities that you had durig the war on a large scale in that district are shut down now.

Commander Hill. Except the reservists. We have to have the srevists' organization.

Mr. Kelley. Of course, you have got to keep the records for the

eservists' business. Admiral County. Those 25 people are keeping thousands of rec-

rds, and if you could see what they came down from. Mr. Kelley. Of course, we were coming down from a war basis. Admiral Coonty. Oh, yes: we first came down to \$1,000,000, and ow we are trying to jump down to \$700,000.

Mr. Kelley. But you are going up again this year. Commander Hill. This part of the item is coming down, sir.

Mr. Kelley. The expenses this year are less than you are asking

or next year.

Commander Hill. But this part of the item is coming down. here is one thing I would like to bring to your attention, and that that the Naval Reserve clerical force was cut down to such an ttent that they have fallen very greatly behind, and just two or tree days ago I asked the Naval Reserve section in Navigation to ake an estimate, in case we found we had any money available in this appropriation this year, as to whether or not we could allot a certain amount to those districts and get them cleaned up and brought up to date on their records, and the officer in charge said that if he could get during May and June a total of 292 clerks for \$55,000. on the 1st of July he could start out with a clean sheet and be up to date, and then for next year he could show a very great reduction.

Mr. Kelley. So much of this Naval Reserve information is useful for a day, a week, or a month, and then it is gone. If you are going to reorganize your Naval Reserve and build it up in another way you will have to start at the bottom again, will you not, Admiral?

Admiral Coonty. Except for this, that we know we are going to pay Civil War pensions up to 2002 and a part of that is because we did not have good records during Civil War times, while these records, with all the care we have put on them to keep them straight, are going to be of vast use to the Government in the course of time, and we will not have any private pension bills, and things like that, because we did not have the records.

Mr. Kelley. In the third naval district you have 58 people in the district communication superintendent's office. What are they doing!

Commander Noves. They are telegraph and telephone operators and a few clerks.

Mr. Kelley. That is a new title. What does it mean? Commander Noves. He is the aid to the commandant of the district in charge of communications in the whole district.

Mr. Kelley. Then the district commandant has 32 people in the Naval Reserve section, 23 people in his office and these 58 besides. making 120 people in the district headquarters in New York.

Commander Noves. The 58—this has been reduced to 52—are telephone and telegraph operators in the third district, and that includes all the activities in the third naval district from New London to-

Mr. Kelley (interposing). There are only 14 people in the commandant's office in New York. What are these people doing under the district communication superintendent?

Commander Noves. They are telegraph and telephone operators. Mr. Kelley. For whom and for what?

Commander Noves. For the New York yard, mostly for the New York yard, for the fleet-supply base-

Admiral Coontz (interposing). Do you have radio compass people among your 58 scattered at numerous places?

Commander Noves. I say, these 58 include all the personnel in the third naval district, telephone and telegraph operators and clerks Admiral Coontz. Tell Mr. Kelley where they are located.

Commander Noves. I can put the exact positions in the record

Analysis of communication personnel, third district.

	Clerical.	Tele- phone.	Tele- graph.	Total
District headquarters Navy yard, New York Submarine base, New London	18	9	1J 2	%
Medical supply depot, Brooklyn	18	21	13	i

Mr. Kelley. They are all in the office in that building, are they not? Commander Noyes. No, sir; this includes the whole third naval district.

Mr. Byrnes. You said they were located from New London to

where—to New York City? Commander Noves. Yes, sir.

Mr. Byrnes. What places are in the district besides New London

that are in operation and where these clerks are located?

Commander Noves. They are clerks and telegraph and telephone operators at New London, at New York, the medical supply depot, the district headquarters, and the navy yard. I think those are the principal points. If there are any others I can give them to you.

Mr. Kelley. How many telegraph operators have you in the Navy

Department?

Commander Noves. Fifteen.

Mr. Kelley. How many of these 58 are telegraph operators?

Commander Noves. Of the 58 in the third district?

Mr. Kelley. Yes.

Commander Noves. I should say 10.

Mr. Kelley. And the rest are telephone operators?

Commander Noves. I would rather put that in the record; I am not certain as to the exact proportion. (See statement above.)

Mr. Kelley. How many enlisted men have you under the district

commandant in New York?

Commander Noves. In the entire third district there are 70.

Mr. Kelley. Clerks?

Commander Noves. No, sir; I thought you said enlisted men.

Mr. Kelley. I meant enlisted men acting as clerks.

Commander Noves. None as far as I know.

Mr. Kelley. What are they doing?

Commander Noves. They are radio operators in the third naval listrict.

Mr. Kelley. Have you no enlisted men acting as clerks in the third naval district?

Commander Noves. No. sir; not as far as communications are concerned.

Admiral Coontz. There is your complete list.

Commander Noves. There are 21 telephone operators and 13 telegraphers in the third naval district.

Mr. Kelley. What are the rest of them doing; are they clerks? Commander Noves. There are 21 telephone operators—they are put

lown separately-13 telegraphers and 18 clerks, making 52.

Mr. Kelley. The chief business they have to transact is with the New York yard and Washington, is it not? Suppose you want to call up the New York yard? Do you call up these headquarters first, and then they give you a call over there?

Commander Noves. Yes, sir.

Mr. Kelley. Is not the chief business of the Navy Department here

with the New York vard?

Commander Noves. We have a leased wire, too, which runs to the district headquarters, and from there they communicate with the yard.

Mr. Kelley. But most of the business goes to the yard, does it not! These other activities around about are war activities which - have very largely gone out of existence?

Commander Noves. No. sir. The fleet supply base is-

Mr. Kelley (interposing). The fleet supply base is quite a large depot!

Admiral Potter. Yes, sir; we have many millions of dollars worth

of materials there.

Mr. Byrnes. I do not see why you need 10 or 12 telegraph operators at that place, unless you have a tremendous amount of business.

Commander Noves. That includes the yard and the district head-

quarters.

Admiral Coonty. They have a very large amount of business to transact there, because that is the center from which they radiate to the navy yard, to the naval hospital, to the fleet-supply base, to the ammunition depot, also to New London, Newport, and the various coastal stations all the way from Cape Cod to the center of New Jersey. That is true, is it not?

Commander Noves. Yes, sir.

Admiral Coonty. They have there radio stations, radio compas stations, and everything of that character, so that it is a very bust place.

Comparative statement of entire communication service, civil field personal included in this appropriation.

	Fiscal year 1921.		Fiscal year 1929	
	Number.	Amount.	Number.	Amount.
Clerical Tel. phere. Tel. graph.	.57 107 36	\$74, 308, 00 124, 588, 00 64, 800, 00	51 109 38	859, 44. 0 125, 96. 3 51, 661. 2
Total		263, 696, 00 245, 564, 08		245, 361.€
Net saving 1922.		18, 131, 92		
· - · · · · · · · · · · · · · · ·	ı		!!	

Mr. Byrnes. You have here in the department how many—10? Commander Noves. Telegraph operators?

Mr. Byrnes. Yes. Commander Noyes. Fifteen.

Mr. Byrnes. And in this one district you have 12? Commander Noves. Yes, sir.

Mr. Byrnes. You have almost as many as you have here, and I assume the department has more business than that one district his

Admiral Coonty. You must remember that is a great distributive

center, and they are very busy people.

Mr. Kelley. I have never been quite able to get away from the belief that if you would put this whole thing over in the navy you you could eliminate quite a bit of this telegraphing. Of course! know you hold a different opinion.

Admiral Coontz. We will do it in two minutes if we can get in the navy yard, but we just have not the space. New York City has gire us thousands of dollars worth of free rent; we have that immen

y building, or such portion of it as we need, right in the center of ything, and we get it free.

Ir. Kelley. But it costs quite a lot to keep it up, because heat,

t, and everything else is required.

dmiral Coontz. I do not think it costs a great deal.

Ir. Kelley. If your business should drop down in the New York 1 and you could find a place big enough for the commandant of district, it seems to me it would be a good thing to move all your vities there.

dmiral Coontz. There is no question about it at all, if the business ps down. In the case of Boston we were able to move in the yard, the commandant has both headquarters within 300 or 400 feet. Ir. Kelley. It looks to me as though you were maintaining an e there simply for the purpose of conveying to the navy yard most he information that comes to it.

dmiral Coontz. But here is the other side of it: Suppose we ed into the navy yard; you must still talk to your naval hospital,

our ammunition depot, your fleet supply base, etc.

Ir. Kelley. They are not so extensive now, because they kind of

le down in peace times.

dmiral Coontz. The hospital does not settle down very much, use we fill it with crippled soldiers, and your other stations all ain the same. We would like to move into the New York Navy d, but there is no space for us, and until that time comes and as z as we can hold the ferry building free, we are lucky people. In event, all of these people would have to be moved right into yard just the same.

lr. Kelley. At the Philadelphia yard, the fourth naval district, re are 15 employees in the communication superintendent's office.

aid for personnel in that office has 11 employees.

dmiral Coontz. There is a sample of concentration. The comidant of the navy yard at Philadelphia is the commandant of district, and his aid for personnel runs all the reservists within big district, and his communications, I suppose, are right close is office.

Ir. Kelley. He has 40 people altogether?

dmiral Coontz. Yes, sir; that includes the board of labor, the secry of the third civil service district, the commandant's office per, and so on.

Ir. Kelley. At New York you have about 150?

dmiral Coontz. Yes, sir. That is the comparative ratio between

business done in those two districts.

Ir. Kelley. At Hampton Roads, where you have a large part of fleet, the operating base, the training school, the navy yard and ything, you have 17 people only, 7 in the district communication e.

ommander Hill. One answer to that is that the third naval dishas 31 people for reservists; they have the biggest reserve inization in the country; Philadelphia only has three and Hamp-Roads has one clerk on this duty.

dmiral Coontz. New York is very active along naval reserve lines

use of the naval militia.

r. Kelley. The naval district at San Francisco is consolidated the yard, is it not?

Admiral Coontz. No. sir.

Mr. Kelley. The commandant has his office in San Francisco!

Admiral Coonty. Yes; and also in free quarters.

Mr. Kelley. Of course, I can see that there might be some possible need for a separate organization there on account of so many ships coming in to that point that do not go up to the yard.

Admiral County. He is also commandant of the training status on Goat Island, and we find that by handling people who pas through there it saves a good deal when they do not have to go up Mare Islands to attend to whatever they have to do.

Mr. Oliver. What vessels are assigned to the commandant of the

Admiral Coonty. The commandant of the twelfth district?

Mr. Oliver. Yes.

Admiral Coonty. He has in that district the same as at Hampton Roads and New York, what we call a pool. That is, they would !! be under his jurisdiction, the tugs, the lighters, the self-propelled oilers, and so on, and when a call comes he assigns the vessels " them. It is possible he has two or three little tugs; he certainly he a little ferry boat running from Goat Island to San Francisco, and I think he has a small craft that runs to Mare Island, to Goat Island or wherever he needs it to go.

Mr. Oliver. He does not have a large vessel devoted entirely w

his own use?

Admiral Coontz. No. sir.

Mr. OLIVER, In other words, his duties are assumed to be preformed on shore and not affoat?

Admiral Coonty. Practically all on shore; he is the commandate of the training station and the commandant of the district. too.

Mr. Kelley. Expenses of naval districts?

Commander Hill. The estimated expenditures in 1921 for the penses of naval districts were \$50,000; they were lumped under some other subhead in 1921; in 1922 there was an allotment made of \$60,000 to cover that.

Mr. Kelley. Are these little odds and ends, such as stationer.

postage, and so on?

Commander Hill. Yes; they are little odds and ends. So much! month is allotted to the district headquarters. This item also covers costs of certain minor repairs. For instance, when we took out the ferry building in New York about \$6,000 had to be spent on t in the way of repairs and fitting up the third floor; and when we done that we were able to take in a number of offices scattered around New York, so that we saved about \$8,000 in yearly rentals by speak ing \$6.000 in repairs. This item covers little odds and ends. as resuggest.

TRANSPORTATION OF DEPENDENTS OF OFFICERS.

Mr. Kelley. "Transportation of dependents of officers." How

this running along now?

Captain Steele. There was spent, in 1921, \$134,000 under item. It is estimated that the current appropriation has been hausted, and we have stopped the transportation of dependents order of the department. This estimate calls for \$120,000, while may be sufficient if we do not order officers around; they go together Admiral Coontz. We are taking all we can by sea.

Mr. Kelley. I suppose it is your policy, when you order an officer. certain duty and he has a family to take with him, to take that into count and take them by sea?

Secretary Denby. We try to do so.

CLAIMS FOR DAMAGES.

Mr. Kelley. Claims for damages? Are these the little \$500 claims aich vou are allowed to settle?

Admiral LATIMER. Yes, sir; they are for damages not exceeding

Mr. Kelley. There are 20 of them this year.

Admiral LATIMER. We have spent thus far this year about \$1,500; t we have a large number of claims pending, and we do not know w many we will settle between now and the 1st of July.

Mr. Kelley. But you think you might settle 20 next year at the

tside figure of \$500?

Admiral Latimer. Yes, sir; we have put it at that amount from e experience we have had in past years.

BOARD OF INSPECTION AND EXAMINING BOARDS.

Mr. Kelley. Board of inspection and examining boards, and so on,

Mr. Curtis. Originally we had an allotment of \$65,000, but we ve cut the amount to \$35,000.

Mr. Kelley. Are these traveling expenses?
Mr. Curtis. No, sir; they are the miscellaneous items necessary for e board of inspection and the examining boards. Up to January 31 had only spent \$7,000, and we have put in an estimate for next ar of \$20,000.

Admiral Coontz. We cut that large sum down to \$20,000 for next

Mr. Kelley. That finishes pay, miscellaneous, does it not? Admiral Potter. Yes, sir.

CIVILIAN NAVAL CONSULTING BOARD.

Mr. Kelley. The next item is for the civilian naval consulting

Admiral County. We have reduced that to \$4,000; it was \$15,000, en \$5,000, and then \$4,000.

Mr. Kelley. Is this the Edison board?

Admiral Coonty. Yes, sir. The Secretary did not deem it adsable to entirely cut it out, so we just simply made a straight 20 er cent cut and reduced it to that low figure.

Mr. Kelley. Is Mr. Edison still on the board?

Admiral Coontral Yes, sir.

Mr. Kelley. Last year you only spent \$1,875.

Admiral Coontz. Yes. sir: and we may not spend any more this ar, but something might come up and we would require this gount.

Tuesday, March 21, 1922.

FOR EMERGENCY AND EXTRAORDINARY EXPENSES.

STATEMENT OF REAR ADMIRAL DAVID POTTER, CHIEF & BUREAU OF SUPPLIES AND ACCOUNTS.

Mr. Kelley. We have with us this afternoon Admiral Potter Chief of the Bureau of Supplies and Accounts, and the first ite

we will take up with him is contingent, Navy.

Admiral POTTER. For 1923 the estimated amount is \$45,000. may be of interest to you to refer to 1921. In 1921 the amount finally appropriated for contingent, Navy, was \$75,000; of that the net expenditure was \$60,740.23, so that there was an unobligate balance in the fiscal year 1921 of \$14,259.77. Referring to the content year, the fiscal year 1922, the total amount thus far allows for expenditure is \$34,498, leaving available to-day for allows \$15,502 out of a total appropriated for 1922 of \$50,000. In result to 1921 I have the items for which the money was spent, both t names of the items and the amounts, and for 1922 I have the man of the items and the amounts allotted.

Mr. Kelley. Is this fund allotted to the different bureaus! Admiral Potter. No, sir; each item must secure the direct approx of the Secretary of the Navy as it comes up. I can give you qual number of these things if they would be interesting.

Mr. Kelley. Have you a list of the allotments made this year! Admiral Porrer. Yes. sir.

Mr. Kelley. Is it a long list?

Admiral Potter. Yes, sir; there are 74 different items. It read some samples and put them in the hearing.

Mr. Kelley. Make a short statement for the record of just the

they are.

Admiral Potter. Very well, sir.

Mr. Kelley. This is a fund that is under the direct supervi

of the Secretary?

Admiral Potter. Yes, sir; and it is for all sorts of expension Naval Academy rifle team, \$1,075; flagship Pittsburgh, Europe station entertainments, \$4,000.

Mr. Kelley. If there are some official functions in which the of the nations or officers must participate the Secretary in his cretion can make an allotment?

Admiral Potter. Yes, sir.

MEMORANDUM RELATIVE TO APPROPRIATION "CONTINGENT, MAYY."

1. The appropriation "Contingent Navy" is largely used for purpos official entertaining by commanders in chief and commanding officers of of the Navy abroad and in certain cases for entertainment of disting foreigners and others in the United States. It is also used for certain each expenses which arise from time to time and can not be charged to other appropriations. It is expendable only after approval by the Secretal the Navy. The general nature of the purposes for which the appropriate used is indicated by the following statement of authorizations already for the fiscal year 1922, many of the allotments covering expenses which be incurred from time to time for entertaining during the whole of the year:

Bicial entertaining nusual expenses in connection with air flights penses in connection with ceremonial funerals atertaining expenses in connection with launching of naval vessels penses of the Naval Academy rifle and football teams penses of Congressional parties in connection with visits to navy	785. 52 300. 00 418. 00 1, 640. 00
yards and stations	154.09
rmons and addresses on religious subjects at the Naval Academy.	3, 000, 00
Iscellaneous.	1, 172. 11
Total allotments to date	34, 498, 57

Tuesday, March 21, 1922.

TEMPORARY GOVERNMENT FOR WEST INDIAN ISLANDS.

PATEMENT OF ADMIRAL ROBERT E. COONTZ, CHIEF OF NAVAL OPERATIONS.

1923 ESTIMATES.

Mr. Kelley. For the temporary government of the West Indian slands you had \$343,440 in 1922 and you ask \$250,000 for 1923? Admiral Coontz. The temporary government of the West Indian lands is under the Navy Department and we have to pay all the spenses. I suppose it costs us annually over half a million dollars all lines of expense. The appropriation last year was \$343,440 and or this year the Governor asked \$384,000 and made a most strenuis plea for that amount, stating that that much was necessary to rry out everything in proper shape. The bill which was passed st year, authorizing the proceeds of the income tax to come into e island treasury, will not give them enough. In our desire to onomize, and before we had full returns from the Governor, we ade a flat cut to \$250,000. I have some letters in regard to this atter, but as I came here in a hurry this afternoon I did not bring em with me, and if this can go over until to-morrow morning I ould like to read those letters to the committee. I also know that dge Towner, chairman of the Committee on Insular Affairs, is Decially interested in this matter. As I say, we made a flat cut to 50,000 just because we were cutting everybody right down the

Mr. Kelley. You have not the Governor's letter with you? Admiral Coontz. No, sir; I did not know I was coming up this ternoon.

Colonel Roosevelt. This is one of the appropriations we have oken about as really not belonging to the Navy Department. Secretary Denby. But we govern the islands and must pay the penses.

Mr. Kelley. Do you recall just what you do with this money? Admiral Coontz. There are a number of projects, but I would ther have you let this go until to-morrow morning, when I can id you a couple of pages from the Governor's letter. It is a very ong letter, and I suspect Judge Towner would like to appear on is subject.

Mr. Kelley. I presume it would be well to have a sort of résume of your expenditures there, so we had better pass this until to morrow morning, and Judge Towner may want to make a statement at this point.

STATE MARINE SCHOOLS.

Mr. Kelley. The next item is for State marine schools. Tell & about that item.

Admiral Coontz. Under the law the States may carry on these State marine schools and receive an amount, equal to their on appropriations, from the Federal Government up to \$25,000. At the present time there are only three States running marine schools-New York, Pennsylvania, and Massachusetts—the others having fallen out. The result is there are only three left and the annual appropriation is \$75,000.

Mr. Kelley. And those three have made an expenditure to the

amount of \$25,000 ?

Admiral Coonty. They have or will, otherwise they will not do this amount from the Treasury. They must prove to the satisfaction of the Secretary that they have done so.

Mr. Kelley. This is in the nature of a reimbursement for be

Admiral Coonty. Yes, sir; at the end of this fiscal year it will be a reimbursement—that is, they get no money until they prove the have spent the money.

Mr. Kelley. Is the \$75,000 we are appropriating here in the

nature of a reimbursement for this current year?

Admiral Coonty. For the current year; yes, sir.

Mr. Kelley. And unless they have maintained the schools and expended these sums of \$25,000 each, they will not be entitled to the **\$**75,000 ?

Admiral County. Unless they have spent an equal amount or

amount in excess of it.

Mr. Kelley. And it is your understanding that these three State are carrying on this work?
Admiral Coontz. I know they are.

Mr. OLIVER. Do you require them to spend any sum over and shore

that in order to secure it?

Admiral Coonty. They have to spend at least that amount order to get the \$25,000 from the Federal Government, but the may spend more.

Mr. Oliver. In other words, if they only spend \$25,000 they would

not be entitled to get it back?

Admiral Coonty. They would be entitled to get it all back. Mr. OLIVER. You do not pay them until they have spent \$25,00!

Admiral Coontz. We pay them a sum equal to their expenditure

not to exceed \$25,000.

Mr. OLIVER. I thought perhaps it might be on a cooperative be a and where they were expending \$25,000 we permitted them spend \$25,000 in addition.

Admiral Coontr. No. sir.

Mr. Oliver. Do I understand that if they collect this \$25,000 for the Government they can reimburse themselves for what they be expended?

Admiral Coontz. If they spend any money on the school the Fedl Government will reimburse them up to \$25,000.

Ar. OLIVER. But suppose they have only spent \$25,000?

Admiral Coontz. The Federal Government will reimburse them .000.

Ir. OLIVER. You understand the purpose of the question? Admiral COONTZ. Yes.

Mr. OLIVER. Because if they spent only \$25,000 and they got 5,000 from the Federal Government, we would be maintaining whole school.

Admiral Coontz. The law on this subject is as follows:

NAUTICAL SCHOOLS-APPROPRIATIONS AUTHORIZED.

sum not exceeding the amount annually appropriated by any State or icipality for the purpose of maintaining such a marine school or schools, he nautical branch thereof, is hereby authorized to be appropriated for the pose of aiding in the maintenance and support of such school or schools: rided, however, That appropriations shall be made for one school in any heretofore named in section 1, and that the appropriation for any one year 1 not exceed \$25,000 for any one school. (Mar. 4, 1911, c. 265, sec. 2; 36 :, 1353.)

CARE OF LEPERS, ETC., ISLAND OF GUAM.

Ir. Kelley. The next item is for the care of lepers, island of am.

Idmiral Coonty. The island of Guam being under Federal and al jurisdiction, the Navy Department has entire and complete There are no civilian doctors on the island of Guam and naval surgeons take care of the population of about 15,000. ere have been, and still are, found lepers there whom we look out , and they have a terrible disease known as gangosa, which starts he roof of the mouth and gradually eats the face up. ut 334 gangosa cases left, and the new cases have been few, bese we have been able to cure many of them. Gancosa is supposed be a mixture of yaws and syphilis, and when they get to a certain ze we have to take care of them and look out for them. Then re is a good deal of tuberculosis there; but this money looks out the lepers and these other people to a great extent. There is a d out there which was started by Mrs. Russell Sage; the principal not be touched, but the interest helps out, so that this year, in line of economy, we have reduced that 10 per cent and asked for .000. It is an appropriation of many years standing, and it is ost necessary thing for those poor people, as they have no money.

WEDNESDAY, MARCH 22, 1922.

ORMATION CONCERNING TEMPORARY GOVERNMENT FOR WEST INDIAN ISLANDS.

ITEMENT OF HON. HORACE M. TOWNER, A REPRESENTATIVE IN CONGRESS FROM THE STATE OF IOWA.

Ir. Kelley. Judge Towner, the chairman of the Committee on ular Affairs, has a great deal of valuable information about the gin Islands. I asked him if he would be kind enough to appear

before the committee when this item was reached, and he has kindly consented to do so. Judge Towner, we will be glad to hear you.

Mr. Towner. Mr. Chairman, the principal object that I have in appearing before the committee is to prevent, if I can, a reduction of these estimates or, at least, to lay before the committee some resons, if I can, which would prevent a reduction of the Budget estmates. Of course, it is natural that this estimate of appropriation for the Virgin Islands should be cut, just the same as other expendtures have been cut or just the same as the other expenditures const tuting the naval budget have been cut, but, as all of you understand, this is not a part of the Naval Establishment. The government down there is purely a civil government, and, very fortunately for us, we have as officials and executives of the government officers from the Navy Department. It would cost the Treasury of the United States a very much larger sum to maintain a civil government dome there if it were provided for in any other way. The estimate set there if it were provided for in any other way. by the Governor of the Virgin Islands was for \$384,500. This was cut by the Budget Bureau to \$250,000. The current appropriate is \$343,440. The Budget reduction on the estimate is \$134,500, and the Budget cut on the current expenditures represents a reducing of \$93,440. Now, it is my judgment that the estimate made by the governor of the islands should be allowed, but, in any event, I ... very sure that the present appropriation for the current year should not be reduced. In fact, it can not be reduced, I think, without very great and serious impairment of the service.

Mr. Kelley. Have you a distribution of the sum by purposes!

Mr. Towner. Yes, sir. Mr. Kelley. I wish you would run over the estimates before you

get through.

Mr. Towner. I have received from Admiral Kittelle a very full statement regarding the conditions there and regarding what be already been accomplished, and I would like to read that statement for the record.

I think I told your committee. Mr. Chairman, a year ago that the record the Navy had made in the Virgin Islands was one of great credit to the department and to the credit of the Government of United States. In fact, it was a godsend to the people of that comtry when the supervision and discharge of the duties connected the government of those islands were committed to the Navy De partment. I can not express too highly my estimate of the splendi service that has been rendered down there by the Navy. It was extremely difficult situation and they made a splendid record.

I want to read, if I may, this statement I obtained from the gr ernor, and if at any time during the progress of the reading desire to ask me any questions do not hesitate to do so. Mr. Sea tary, if you desire at any time to ask any questions please do

hesitate to do so.

The governor stated:

As you are aware, nothing was done for the Virgin Islands until your mission visited the islands in January, 1920, and then, after your report made to Congress, a full year elapsed without any marked movement to the congress. carrying out the wise recommendations made by you.

Mr. Kelley. This is a letter from the naval officer in charge the addressed to you?

. Towner. Yes, sir; it is from Rear Admiral Kittelle, who is overnor of the islands. I might explain that a joint commiswas appointed, consisting of three Members of the Senate and Members of the House, and the commission visited the islands had hearings in the islands and covered the general situation

e governor's statement continues:

oon as possible after my inauguration as governor I set about the work rying out the wishes of Congress as voiced in the adopted report of your ssion, and in the six months that have elapsed the following has been plished:

ension by Congress of the Federal income tax laws to the islands.

at provision extends our income tax laws to the islands, but s the money to be covered into their own treasury. This year will be of material assistance to them.

arring by Congress of aliens from holding public office. oration to par of island currency.

exchange situation when we had these hearings was very rable. There was no real reason for the existence of that con, but the financial powers in the islands and bankers of the ls arranged it so that there was a difference in the exchange en the United States and the islands parallel to the difference exchange rate between Denmark and the United States. That, urse, was an absurd arrangement, because the deposits were here. We went after that situation very vigorously, and with poperation of the Governor and the Federal authorities here, cured the abolishment of that rate of exchange, which was of benefit to the people of the islands.

blishment of a department of public welfare. ided and opened the first senior high school.

en we went there they had no high school, or they had practinone. I think there was something that they called a high I, but they had no graded system. Since then there has been ished an almost perfect graded system, corresponding to our d system of public schools in the United States.

ightened out difficulties in the judiciary and obtained passage of colonial oviding only one district judge.

recommended the appointment of two district judges, but it ound upon trial that the entire business of the court could be acted by one judge, which was a manifest saving. We owe that by to the recommendation of the Governor—that is, the abolate of two judges and the adoption of the one judge system.

coved the condition of the poorhouse.

ined modern treatments for leper colony.

nded sewer system, salt water fire main system, and sanitary public system.

n may not understand, but it is, nevertheless, a fact that there othing modern in the way of health protection in the islands we went in there. All of that has been created since.

nded and improved roads and streets.
plans for water supply at St. Thomas, Christiansted, and Frederiksted colonial councils.

Prepared local tax laws to replace archaic Danish, and laid same befor colonial councils.

Prepared scheme for renaming streets and laid same before colonial councils brought before colonial councils necessity for providing public bathing a cilities.

Made improvements on public school buildings.

Had passed automobile traffic laws.

Made extensive improvements in the three public libraries.

Encouraged Red Cross to examine all school children and all physical defeathus discovered have been properly treated.

Put into effect new code of laws for St. Thomas and St. Johns.

That is, after all, the most considerable accomplishment that the have made down there in the islands. I think you will remembe that I told you, a year ago, that we hoped to have those codes adopted, and they have been adopted now, so that all we lack is a taxing system in the islands. A taxing system has been proposed before the councils, but it has been opposed by the property interests of the islands. The principal property owners in the islands are Danish, English, and Americans, and a great many of them are not residents of the islands. They have secured the adoption of them laws with remarkable celerity, and I think with a remarkably for effect; but I have no doubt that something will have to be done with regard to the taxing system.

Mr. OLIVER. I suppose your committee has pretty well evolved the basic principles on which a tax bill for the islands should be

drawn?

Mr. Towner. No; I can not say that. We only know this that at the present time there is a very archaic system under which ready all of the property of the islands escapes taxation. For instance only a small area of cultivated lands and practically none of the uncultivated lands pay taxes.

Mr. OLIVER. My understanding is that the taxing system in the group of islands, as they existed under foreign control, is very different from our system here. In other words, the owners of property

who are best able to pay the burden escape it.

Mr. Towne. Yes; almost entirely. That is very true. The governor's statement continues:

Have had most cordial support from the Secretary of Agriculture towns making the islands self-supporting in food production.

Started school gardens for instruction.

It was rather singular that when we took the islands over and is several years afterwards the people of the islands, swarming as the were and with plenty of opportunity, did not even provide their on vegetables. They did not even have their own gardens or how gardens, and it was with extreme difficulty that we could teach the to have their own gardens. Our own Department of Agricultar has brought about a great reform in that regard, principally through the influence of the school teachers and school children. They are bringing about great changes and the people are being interested the home gardens. That is something that has affected a wonders change in the whole outlook.

The governor's letter continues—

During the past year, as compared with a previous period of 10 pellagra has been reduced 50 per cent, nervous diseases 65 per cent, intestinal diseases 80 per cent, and typhoid and malaria eliminated. In his mortality has been reduced 25 per cent.

without going further into the general statement, I want to p the items in the estimate which have been sent in by the ior. I think, Mr. Chairman, that this full statement by Ad-Kittelle might, perhaps, be printed in the record.
Kelley. It may be inserted in the record at this point.

e statement referred to is as follows:)

OCTOBER 11, 1921.

DEAR JUDGE TOWNER: 1. In the estimates for the Virgin Islands for the ear 1923, the island budget has been arbitrarily reduced by the Budget ssion in Washington from \$343,440 (amount appropriated for current ear) to \$250,000 (Budget Commission estimate for coming fiscal year) consulting the governor as to what would result from such a drastic on. The governor's estimate for the coming fiscal year was \$384,500. be observed that the Budget Commission has made a reduction of \$134,500. I mistake not the island's appropriation of \$343,440 was provided by the is as a result of first-hand knowledge of conditions as ascertained from gressional commission of which you were senior member from the House esentatives, and which information you were able to give to the Comon Naval Affairs handling the appropriation.

you are aware, nothing was done for the Virgin Islands until your sion visited the islands in January, 1920, and then, after your report de to Congress, a full year elapsed without any marked movement toward

g out the wise recommendations made by you.

on as possible after my inauguration as governor, I set about the work ying out the wishes of Congress as voiced in the adopted report of your sion, and in the six months that have elapsed, the following have been lished:

Extension by Congress of the Federal income-tax laws to the islands.

Debarring by Congress of aliens from holding public office.

Restoration to par of island currency.

Establishment of department of public welfare. Provided and opened the first senior high school.

straightened out difficulties in the judiciary and obtained passage of law providing only one district judge.

improved the condition of the poorhouse. Obtained modern treatment for leper colony.

Extended sewer system, salt-water fire main system, and sanitary public

Extended and improved roads and streets.

Laid plans for water supply at St. Thomas, Christiansted and Frederpefore colonial councils.

'repared local tax laws to replace archaic Danish laws and laid same colonial councils.

Prepared scheme for renaming streets and laid same before colonial

Brought before colonial council necessity for providing public bathing

Made improvements on public-school buildings.

Had passed automobile traffic laws.

Made extensive improvements in the three public libraries.

Encouraged Red Cross to examine all school children and all physical thus discovered have been properly treated.

out into effect new code of laws for St. Thomas and St. John.

Iave had most cordial support from the Secretary of Agriculture toward the islands self-supporting in food production.

Started school gardens for instruction.

During the past year, as compared with a previous period of 10 years, that been reduced 50 per cent, nervous diseases 65 per cent, gastroal 80 per cent, and typhoid and malaria eliminated. In fact, mortality n reduced 25 per cent.

Code of school laws promulgated.

king up the wise recommendations of your commission one by one, J te what has been done toward their acomplishment. .

Our Government to assist in cooperation with the people of the islands lishing an adequate water system in St. Thomas and St. Croix."

The governor has had plans made for water systems at St. Thomas, Chris tiansted, and Frederiksted and laid the same before the colonial councils in action. The total cost of all three adequate systems will now be about \$240,600 The governor believes that he is justified in saying that the people of the islands will do their best, but the suggested help of Congress will be necessar,

and I very earnestly request your aid in obtaining such assistance.

"(2) A better system of transportation should be provided between the various islands and between Porto Rico and the islands. And it is recommended.

that the Shipping Board give immediate attention to this question."

The governor has besought the aid of the executive branch of our been Government to obtain such service from the Shipping Board. and the Shipping Board representative, who has recently visited the islands, has express himself as fully in accord with the plans proposed by the governor. It is hope something more than words will result from this effort.

"(3) Steps should be taken to provide an American system of currence a place of the present Danish system which now burdens the people by virtu of exchange rates, resulting in decreased purchasing value of the Dank

money.

The Danish money had been restored to par and this burden removed from the people. American currency will supplant Danish currency later what American banking comes into the islands.

"(4) The existing code of Danish laws should be superseded by a code **c**

laws based upon American principles and ideals."

The new codes are already in effect in all the islands. Certain old supple mentary laws still in existence will be modified in due course.

"(5) Educational work in the islands should be greatly extended intensified.

The governor has given education his first attention, since the full American canization of the islands will depend largely upon how the rising generate is trained. He has visited the schools, both public and private, and is observed the work in all grades and classes. Marked improvement in school is trained. buildings and facilities have been brought about and the first senior hi school ever held in the Virgin Islands has been opened and is in openion Further improvements are necessary and the school budget can not be connecent, but, on the contrary, there will be a gradual increase in cost several years to come. Apparently no thought was given to this matter to the Budget Commission in Washington, as the will of Congress in this matter of island education was evidently not known to them. The schools must be maintained and expanded. The future of the people of these islands at their thorough Americanization vitally depend upon the education of the children. Large numbers of adults lacking in education have appealed for all schools. Shall we turn a deaf ear to such a call in order to effect an unpracted saving of a few thousand dollars? The school budget is but 20 per cent of the whole budget, whereas the lowest home State spends 36 per cent, and Virgin Islands public schools will now compare very favorably with the in the States.

"(6) As far as practicable American boats should be bunkered and fuel

at St. Thomas."

The Shipping Board is sending some of its vessels here. It is to be regular that except for the transports few, if any, naval vessels bunker at St. Thousand the state of the transports few, if any, naval vessels bunker at St. Thousand prosperty.

"(7) There should be some method adopted by which the people of St. I will have mail delivery if it can be accomplished at a reasonable expense

An improvement has been made in this particular, and mails now go regu

to St. John.

"(8) The agriculture experiment station should be enlarged and its extended over the islands of St. Thomas and St. John."

The Secretary of Agriculture has given the most vigorous and cordial to the governor in this matter. He has appointed a superintendent there versed in tropical vegetation, who has arrived in the islands and will i every effort to restore the islands to a condition of self-support in ve and fruit culture. Exhibition truck gardens are to be started in various and the public in general and the school children in particular are to be to gardening.

"(9) The bar at Christiansted should be removed. This would open the half

1

for boats of medium and light drafts.'

he harbor was surveyed by Army engineers some time ago, but nothing furr has been done. With a good modern dredge equipped to handle coral forion, the governor believes that he could open the harbor at very moderate ense. It is an important matter and should not be allowed to die from rtia.

(10) The establishment of libraries with good buildings at St. Thomas and St. Croix would be of great advantage in the development of these islands." ibraries at St. Thomas, Christiansted, and Frederiksted were opened by for-· Governor Oman and are now in thriving condition. The Red Cross gave us start, and the American Library Association helped wonderfully. It is sost pathetic to see the eagerness with which the members of the juvenile sulation visit and make full use of these libraries. Monthly attendance at libraries has run from 4,000 to 5,700 readers, or about one-fifth of the total ·ulation.

(11) The commission found the system of taxation on the islands unjust, flicient, and archaic. We recommend that the entire system be reformed haview of securing a greater income, which we believe possible, and in order

o to more fairly equalize the burdens of taxation."

he governor has given this matter his unremitting attention, and has caused dern tax bills suitable to island conditions to be drawn up. These have been I before the colonial councils and are being considered in committee. It is ed that ere many months elapse the laws may be enacted. It will then rere a year of experience to determine what income therefrom will result to island treasury.

(12) It is the judgment of the commission that the present local legislative tem of one council for St. Thomas and St. John and one for St. Croix be ained."

This has been done, but as yet the assembly of a grand council for both islands

not been found practicable.

(13) It is the judgment of the commission that in the revision of the judicial tem one court and judge having general jurisdiction should be provided for islands of St. Thomas and St. John, and one for the island of St. Croix; I that writs of error and appeals should be to an appellate court consisting of two judges from said islands and the judge of the district court of the ited States for Porto Rico, sitting in banc."

Iwo judges were tried, but it was found that one can do the work for all sislands; and so the local laws have been amended, and there is now only district judge under the island government. The governor earnestly ommends that the Congress legislate, in accordance with the above recomadation of its commission, to remove the appellate authority from the United ates appellate court at Philadelphia and vest it in an appellate court nearer hand, consisting of the district judge of the Virgin Islands, the district lee of Porto Rico, and one associate justice of the Supreme Court of Porto v. The appellate court of Philadelphia has been shown to be much too far ay to act with full knowledge, and considerable unnecessary embarrassment

resulted to the island government.

. The above information will place you in touch with conditions as they exist: and I believe it will be apparent to you that until the new tax s are passed and have been in operation for a year, together with the income law, it will be impossible to reduce the appropriation which Congress has tofore wisely considered necessary and which is necessary to maintain the We have put our American shoulder to the wheel, and we can not ograde in either education, sanitation, or in our efforts to provide water ems and make living conditions normal. The honor and prestige of the ted States are at stake and should not be sacrificed for \$90,000 saving in udget campaign. These islands had no part in piling up the great war inditures, but have been economically administered from the first.

I will write to you again, when the appropriation bill comes up next ter, and ask you to maintain the appropriation at its present figure. I am emely anxious, and I believe it is the wish of Congress, to make these ads self-supporting; but if the props are cut out from under me in the st of my efforts, local failure is sure to follow.

I have written also to Senator Kenyon. Very sincerely yours,

SUMNER E. W. KITTELLE, Governor.

On. HORACE M. TOWNER, M. C., House of Representatives, Washington, D. C.

St. Thomas, August 27, 1

From: The Governor of the Virgin Islands.

To: The Chief of Naval Operations.

Subject: Estimate of appropriation for the "Temporary government for

West Indian Islands," fiscal year ending June 30, 1923.
References: (a) Budget Officer's letter, July 23, 1921, No. 28759-589
Opnay, letter 29370-11:1, dated July 27, 1921; (c) governor's letter
of August 16, 1921; (d) department's radio 1223-1610, August: (e) ernor's radio 1025-0900. August; (f) department's radio 1026-1110. A

I. The itemized estimates of the amounts necessary to operate the 20 ment of the Virgin Islands of the United States from July 1, 1922, to Ju 1923, are embodied herein,

Amounts estimated to be absolutely necessary to cover the deficit in m the government for the fiscal year 1923, \$384,650.

Expenditures.

Colonial councils	\$8, 180, 00
Judiciary departments	32, 514, 00
Police and prison departments	69, 647, 40
Harbor departments	34, 887, 80
Fire departments	18, 262 . 00
Health departments	222, 551, 23
Poor departments	30, 590, 00
Department of education	111, 856, 10
Public works departments	87, 466, 42
United States expenses	44, 760, 00
Subsidies	5, 500, 00
Miscellaneous	4, 283, 00
Pensions and allowances	3, 202, 05
Contingent	15, 000, 00
- -	\$658.

Revenues.

	
	02,000.00

Leaving a net deficit of______

304.1 384.1

- 2. The foregoing is the amount to which the governor, as the chief exe of the islands, has reduced the local budgets, but I bespeak the favorable: of the department for the additional sums recommended below:
- II. Estimated additional amounts required to provide public utilities sary to the healthful living conditions of the people of these islands and educational facilities, \$390,000.
- III. Desirable improvements, such as Americanizing the currency. improvements, road construction, assisting agriculture, betterment of portation, etc., have not been considered, as it is recognized that such pr must be most regretfully and indefinitely postponed.

 3. In explanation of II the following is submitted:

Water, or, rather, the lack of water, has held back the development of islands more than any one factor within my knowledge. The congress document No. 734, dated April 19. 1920, report of joint commission appounder authority of the concurrent resolution passed by the Congress θ United States January, 1920, states on page 26:

"One of the paramount questions involved in the health and happine these islands is an adequate water supply. The well water there is not The people are dependent upon cisterns, iron receptacles, and barrels for ding water. The greatest misfortune of these islands is the lack of water has been so bad that one year it was necessary to import water. Nor cal adequate system of sanitation be carried out until this question is met. effort has been made looking to the construction of a reservoir in the mou at St. Thomas, and plans are being worked out for a water system.

imated that a proper water system for St. Thomas will cost about \$250,000; Dably nearly as much for St. Croix. This is a vastly more important queston to these people than the question of civil government. Some way must be and for our Government to cooperate with the people of these islands in wing this, the most important question involved in their situation."

The public works officer estimates that in 1922-23 this Government could pvide concrete watersheds and reservoir in the island of St. Thomas on land mated by the local government for \$75,000, and in the island of St. Croix, at ederiksted, for \$86,000, and at Christiansted for \$89,000. The sum of \$240,000 El confer an immeasurable and lasting blessing on these islands, will place ∋m on a par with other communities, and will insure their development by ivate capital in the hotel and commercial fields. Common humanity and perican honor alike demand that we shall fulfill this obligation.

2. Education can only expand if funds are provided. It is imperative that nior high-school courses be open to the steadily broadening stream of children ending the grammar and junior high schools of the islands. Two thousand hundred and eighty-one children enrolled last year in the public schools, d the daily average attendance was 93.90 per cent in St. Thomas and St. In and 82.70 per cent in St. Croix. The new school law raised the age limit compulsory education from 13 to 15 years. Vocational training and dostic science courses, employment of trained American teachers, will require reased amounts. The \$150,000 asked for intensifying the system of educa-•n will be spent on land, buildings, salaries for American teachers, and greatly eded equipment. Over 500 people over school age and deficient in commonpool education have appealed for night-school instruction. Can the United mates consistently deny such an appeal?

5. The \$384,650 in I is the irreducible minimum beyond which this govern-≥nt can not function in other than a halting, retrograding fashion. It does t include any new construction or progressive development of any kind, such

we are pledged to provide, but is bare governmental deficit.

St. Thomas, December 30, 1921.

MY DEAR JUDGE TOWNER: In accordance with my promise I am writing to you ain on the subject of the budget for the Virgin Islands, as the holidays are w over and the budget is before Congress. I am inclosing a copy of my letter you dated October 11 last, as the data in that letter will enable you to better iderstand conditions as they are.

Perhaps you will remember, from your visit here in 1920, that one of the prinpal reasons why Congress made the appropriation for these islands in the first Ecc was that when we took the islands two definite sources of income stopped ad short. These two were the lottery, which paid yearly into the local treas-マ \$100,000, and loss of custom duties on imports from the United States which merly were paid into the local treasury. Goods from the United States beme free at once. This loss deprived the local treasury of about \$200,000. exact, in 1916, the year before we took over the islands, the amounts collected **puld have been \$191,341.65.** Thus the American occupation deprived the islands A former income of approximately, in round numbers, \$300,000.

It is unfortunate that the budget for the Virgin Islands can not be considered On its own merits. It is carried on the naval budget and as such it is seemingly impelled to bear its share of retrenchment in naval expenditures, whereas the Denditures are not naval in any sense, but purely and entirely civil. The govment of the Virgin Islands is not a naval government, but a civil government, the executive, legislative, and judicial departments. The island government * been very frugal and for every dollar spent has secured a full dollar's value. tness our public-school system, which I wish Congress would compare with 's in the States; it is better than in many States, and it costs only 20 per cent the local budget, as against 36 per cent for the State that spends least, and I rn that in some States the amount runs up to 50 per cent.

tax law based upon American principles and framed to be very gentle in its innings, as compared with tax burdens in the States, is before the colonial Dells now. It is having a hard time. In the colonial council for St. Thomas St. John, which is fully controlled by the Danish financial interests, which Prests are quietly anti-American, the bill is being amended in such a way as Conder it valueless, not only as to American principles, but also as to revenue.

The plain people are with the government, but unfortunately they have it no voice, as the interests control the council. And right here I can not specifically of the real American spirit which is becoming manifest among the people; it would be a great gratification to the President and to the Control section.

I most earnestly urge that the island budget be not reduced, for if Cor will but continue it for a few years more I firmly believe that the island become self-supporting. You will remember that it is not yet two years your commission of Congress visited the islands, and to withdraw congress support so soon would operate to undo much that has been done toward a canization.

I have written also to Senator Kenyon.

Very sincerely, yours,

SUMNER E. W. KITTELLE.

Hon. Horace M. Towner, M. C., House of Representatives, Washington, D. C.

EXPENDITURES OF GOVERNMENT.

Mr. Towner. The amount of expenditure, as estimated by the ernor of the islands, is \$668,700; the amount of revenues derived: the islands was \$304,050, leaving a net deficit of \$384,650. The i are as follows:

Colonial councils Judiciary departments	
That, you will understand, includes all of the judiciary local and municipal courts.	, erei
Police and prison department Harbor departments Fire departments Health departments Department of education Public works department United States expenses Subsidies Miscellaneous Pensions and allowances Contingents	34.8 18.2 22.5 30.5 111.8 87.4 44.7 5.5 4.2 3.2
Total	688, 7
Now, the items of revenue are—	
Direct taxes	100
m	901

That leaves a net deficit of \$384,650.

It will be noted that the principal items constituting, I suppalmost five-sixths of the entire expenditures that will be required least, to be paid by the Government, are in the two items of be departments. \$22,551.23, and department of education, \$111,850. Now, gentlemen, those items can not be reduced. There is no possequestion about that. If the committee feels that there ought any reduction at all from the estimates, I sincerely hope you not go below the current appropriation. I think that will be all lutely impossible. I think it would bring such discredit to ourse

ad such impairment of the work down there that it would be very scouraging.

Mr. OLIVER. What does the total amount to?

Mr. Towner. The total of the appropriations for this year? Mr. Kelley. No; the deficit.

Mr. Towner. The total expenditures as now estimated amount to 388,700; the total revenues of the islands are estimated at \$304.050, aving a deficit of \$384,650. That is the estimate as made by Adiral Kittelle. The expenditures for the current fiscal year amount • \$342,440, and I very earnestly recommend that that amount be not duced.

Mr. Oliver. Does your committee contemplate recommending to ongres at any time in the near future a tax bill for the islands?

Mr. Towner. I will say that practically everything that we have ecommended in our report has been carried out very successfully. his is the only thing that has not been done.

Mr. Oliver. Is not that a very important matter?

Mr. Towner. It is the most important of all.

Mr. OLIVER. What are the reasons for delaying it longer?

Mr. Towner. There are no reasons. We have now given them an mple opportunity to do it themselves, and that is the way it should ø done.

Mr. OLIVER. If the matter is left to them, it is not likely that it ill be done along lines that we can approve.

Mr. Towner. I think that is true.

Mr. Oliver. It seems to me that in drafting a bill of that kind we e bound to follow what our observation and experience here at me leads us to believe is a just and equitable taxing system.

Mr. Towner. I entirely agree with you. My idea now is to have tax expert sent from the United States, probably from the Treasy Department, so that the exact conditions in that regard can be ported to us. Upon that information, we will prepare a bill. Mr. Kelley. We are very much obliged to you.

THURSDAY, MARCH 23, 1922.

EXPERIMENTAL RESEARCH LABORATORY.

ATEMENT OF CAPT. E. L. BENNETT, TECHNICAL AID TO THE SECRETARY OF THE NAVY.

Mr. Kelley. There is an item on page 13 for the Experimental d Research Laboratory. Please tell us about this laboratory. Captain Bennett. This laboratory was authorized by law several ers ago to be built on the grounds of the Bellevue Magazine, for perimental and research purposes for the entire Navy. The builds are completed and the equipping of them is under way. We ther hope to have the place ready to start operations about the of July, but we have no money yet with which to operate it. The ginal estimate for operation for the first year was \$300,000, and at was reduced by the Budget officer to \$100,000.

Mr. Kelley. You mean by operation the expense of the employees,

keep of the buildings, and upkeep of the plant?

Captain Bennerr. And fuel and material.

Mr. Kelley. But not equipment? The building is equipped with the necessary laboratory facilities?

Captain Bennerr. It will be out of the existing appropriation.

Mr. Kelley. This is for operating the laboratory?

Captain Bennerr. For operating expenses for the coming year.

Mr. Kelley. Give us the details of it.

Captain Bennett. The original estimate was \$300,000. The Nav had nothing to go upon in the way of precedents with regard to he much it would cost to run an establishment of this sort, but my predecessor, who has been connected with this project from its in ception, traveled around the country and got some data from the research laboratories of the large commercial establishments, in the General Electric Co., the Edison Co., etc., and he found the they were spending anywhere from \$500,000 to \$1,000,000 a year a such work. He decided that we could run our laboratory for the first year on \$300,000, and that sum was apportioned as follows Salaries, \$49,490; wages, \$93,036; fuel, \$22,500; repairs and min tenance, \$25,000; temporary test houses, \$25,000; emergency current \$15,000; stationery, office supplies, etc., \$1,500; telegraph and the phone service, \$600; material for experiments, \$50,000; and addtional equipment, \$20,000. As I say, that estimate was cut by the Budget officer to \$100,000, and we have not attempted to allow the \$100,000 among the various items that are enumerated in the We did not know how to do it, because we had first estimate. nothing to go on.

Mr. Kelley. Is not Admiral McVay going to conduct some er-

periments down there?

Captain Bennett. We expect to be patronized by all the bureautor. Kelley. He has a fund of \$250,000, or something of that his for experiments and researches. Why could he not help you out such work as you may do for him?

Captain Bennerr. We will have to be helped out very material by the various bureaus for which experiments will be conduct because \$100,000 will not much more than pay the overhead.

Mr. Kelley. Admiral Taylor has a fund for experiments. Captain Bennett. Yes. sir: but I question whether we will be very much for the Bureau of Construction and Repair.

Mr. Kelley. And for the Bureau of Engineering? Captain Bennerr. We should do a great deal for them.

Mr. Kelley. You have a large fund for experiments, have not. Admiral?

Admiral Robison. That is unlimited.

Mr. Kelley. You can use your own discretion about that!
Admiral Robison. Yes, sir. We will use about \$150,000 for the purpose this year.

Mr. Kelley. Where will you conduct your experiments mostly Admiral Robison. The sort of work that we expect will be at the laboratory is now being undertaken at the Washington was Yard and by the Bureau of Standards. I am not sure that Bureau of Standards work should not continue to be handled at point, where it is available for all of the departments of the Government.

ELLEY. Do you know how much experimental work you will do, such as might be done under Captain Bennett at this y ?

al Robison. I would start off by giving him \$25,000.

ELLEY. What other bureaus would you be likely to do work tain?

n Bennett. Possibly for aeronautics.

ELLEY. So that, if this \$100,000 were given you, and you ronized with some little generosity by the other technical

you could get along all right?
n Bennerr. We will make a start, and I hope that by the ext year we will be able to prove the value of the laboratory,

ur original estimate will go in next time.

ELLEY. How large a plant is this?

n Bennerr. I have a picture of it here. That building [inon the right is a machine shop, 300 by 80 feet; and the lding is a foundry, which is about 100 by 60 feet; the next is a pattern shop of the same size; and the chimney indiere the powerhouse stands; in the background is the laborilding, 200 by 60 feet—three stories in height.

ELLEY. How much did that plant cost?

n Bennerr. The appropriation was \$1,500,000, and it will be expended by the time the place is equipped.

ELLEY. How far down the river is this?

in Bennett. It is about 7 miles from the navy yard, as I

LIVER. Did you move any of the plant from Annapolis here? in Bennerr. No, sir; nothing has gone from there and I do that anything will go from there. The plant at Annapolis of a testing plant for completed material; this one is innore for research purposes, and particularly as a developoratory.

ELLEY. Who located it?

in Bennerr. That was done before my time.

al Coontz. Mr. Daniels.

ELLEY. Seven miles down the river?

in Bennett. It is 2 miles below St. Elizabeths.

ELLEY. How do you get down there?

in Bennerr. The trolley cars go within 14 miles of the place. ELLEY. Is there anything else there besides the laboratory? in Bennert. The Bellevue magazine occupies about half of rnment property.

ELLEY. What was the reason for the location of it at that

in Bennerr. It was desired to have it in the District so that be readily accessible to the Navy Department; and, I supit was the most suitable available Government land. ELLEY. They put it as far as they could to keep it inside

istrict line!

in Bennett. I was not here at that time. The Navy wanted shington. The original proposition of certain ones of the nsulting board was to locate it in New York.

LELLEY. Is it accessible to the bureaus that will use it?

Admiral Coontz. Yes, sir; the bureau chief can go down and a look at what is going on there.

Mr. Kelley Should it not have been built closer to the city?

Admiral Coonty. They had the land free.

Captain Bennerr. It was Government land. In addition, the a dock there, and we can bring good-sized ships alongside. We 24 feet of water alongside the dock. If we have developed a thing and wish to try it on board ship, we can bring the ship al side, put the thing on board, and try it out.

Mr. Kelley. The officers are in Washington?

Captain Bennett. Yes, sir; there are no quarters down then Mr. Kelley. Is any part of this estimate for the purpose of e ing quarters?

Captain Bennerr. No, sir.

SALARIES.

Mr. Kelley. Let us see how your salaries run: You have a cdraftsman at \$4,800. Is that about what Admiral Taylor and

miral McVay pay their chief draftsmen?

Captain Bennerr. Admiral McVay can answer that better I can. This list was prepared by Admiral Smith, who spent: years on this project, and I have not presumed to go behind his is ment.

Mr. Kelley. Is that about what you pay chief draftsmen,

Admiral McVay. Yes, sir.

Mr. Kelley. You have other draftsmen at from \$3,750 dow \$1,400. You are hoping to get enough income from the other

reaus to maintain about this schedule?

Captain Bennett. No, sir; this is what would be classed as a head. We kepect to have to pay out of the \$100,000 the perma force, which would consist largely of technical and clerical pe and a few of the head mechanics, who will be especially selected cause of their ability to conduct research work. It requires a of peculiar disposition and temperament to be successful in expendent and research work. Production does not enter into at all. Having established this nucleus force, assume that the reau of Ordnance wants some experiments conducted: As we not have sufficient money to pay for it, we would rather expect to chip in and help. We would get the mechanics and laborers, pably from the Washington yard, and we would pay for them transfer of funds. The Bureau of Ordnance would then reimb us. That is our general scheme, but we do not know exactly the details will work out.

Mr. Kelley. This is under the Secretary's control? Captain Bennett. It is under the Assistant Secretary. Mr. Kelley. But it is under the Secretary's office?

Captain BENNETT. Yes, sir.

Mr. Kelley. That is where it belongs, really, as a matter of and right?

Captain Bennett. Yes, sir; if it were under any one bureau!

bureau would own it.

Mr. Kelley. It is for all of the bureaus?

Captain Bennett. Yes, sir.

THURSDAY, MARCH 23, 1922.

OFFICE OF THE SOLICITOR.

PATEMENT OF REAR ADMIRAL JULIAN L. LATIMER, JUDGE ADVOCATE GENERAL OF THE NAVY.

SALARIES.

Mr. Kelley. Office of the solicitor, Navy Department.

Admiral Latimer. The office of the solicitor is a part of my fice and therefore I appear in behalf of that item.

Mr. Kelley. For 1922 you had for your statutory roll \$22,990. Admiral Latimer. Yes sir.

Mr. Kelley. How much do you want for next year?

Admiral Latimer. For 1923 I want the amount of the estimate. **22,99**0.

Mr. Kelley. You want the same number of clerks and the same nount for salaries?

Admiral Latimer. Yes, sir; the same list of clerks and the same ay. However, the lump-sum appropriation has been reduced.

Mr. Kelley. I am referring to the statutory roll.

Admiral LATIMER. That is the same.

TEMPORARY EMPLOYEES.

Mr. Kelley. Then you had for 1922 a lump-sum appropriation of 20,000 and you are asking \$19,920 for 1923?

Admiral Latimer. Yes, sir. We had \$22,520 last year and we re-

uced it to \$19,920, a reduction of \$2,600.

Mr. Kelley. You ask an increase of \$150 for one clerk.

Admiral LATIMER. That is an increase from \$2,250 to \$2,400. an attorney who, by error, was reduced last year from \$2,400 to 2,250; he has been getting \$2,400 up until last year, and we ineased his salary by \$150 in order to put him back where he had He has served a year longer and gotten \$150 less.

Mr. Kelley. This is the one we took care of in the naval bill

ıst vear.

Admiral LATIMER. Mr. Dyson is his name.

Mr. Kelley. So you want that put back to \$2,400?

Admiral LATIMER. Yes, sir; where he was before.

Mr. Kelley. That is to correct a mistake?

Admiral Latimer. Yes, sir.

Mr. Kelley. He has been getting \$2,400 this year? Admiral Latimer. No. sir; he has only been getting \$2,250.

Mr. Kelley. I remember something about it, and I thought we innded to fix that.

Admiral Latimer. I understand you did.

Mr. Byrnes. Do these attorneys get the bonus?

Admiral LATIMER. Yes, sir.

Mr. Byrnes. I do not particularly mean the one we are dis-

Admiral Latimer. All of the attorneys get the bonus.

Mr. Kelley. How old are these men?

Admiral Latimer. Mr. Dyson, the one you are putting up to \$2.400. I should say was a man between 45 and 50. He is a very stable, excellent, and valuable man.

Mr. Kelley. Is he a naval officer?

Admiral LATIMER. No. sir: he is a civilian attorney. All of these are civilian attorneys.

Mr. Kelley. Is that all you have, Admiral?

Admiral LATIMER. That is all under the office of the solicitor. However, I will say that we have now gotten our office down to the budget for next year.

LAWYERS.

Mr. Kelley. How many lawyers have you in the department? Admiral LATIMER. Of the civilian attorneys we have in all six.

Mr. Kelley. And none of them get above \$3,000?

Admiral Latimer. No. sir. Then, of law clerks, who are also graduates in law, we have nine. Then we have a number of officers who are also graduates in law.

Mr. Kelley. All of these lawyers you speak of are civilians? Admiral Latimer. All of these I am speaking of now; yes, sir.

Mr. Kelley. How many officer lawyers have you?

Admiral Latimer. Of officer lawyers we have five and nine student taking a law course. Four of them graduated this year from the George Washington University.

Mr. Kelley. You have 12 lawyers and 4 students? Admiral Latimer. Five lawyers and nine students.

Mr. Kelley. Are the nine civilians or are they officers?

Admiral Latimer. They are officers. Mr. Kelley. We carry their pay-

Admiral Latimer (interposing). In pay of the Navy.

Mr. Kelley. Do they get any extra pay for their post-graduate work?

Admiral Latimer. No. sir. They go to school until 11 o'clock work until 5 or 6 o'clock in the afternoon, and then go home and to their studying.

Mr. Kelley. How long do you keep these boys?

Admiral Latimer. Three years and then they go back to sea. They stay long enough to take their final examinations in college and take the bar examination in the District.

Mr. Kelley. Why do you need lawyers at sea? Admiral Latimer. They are sea lawyers.

Mr. Kelley. I have known of lots of lawyers at sea.

Admiral Latimer. A number of those men specialize in interestional law and admiralty law; they are also very valuable in big court martial cases and big cases of inquiry. We find they are always in great demand at sea because of their legal training.

Mr. Kelley. Do they act as judges of the courts?

Admiral Latimer. Yes; as judge advocates, as counsel for the fense, as judge advocates in big inquiries, in collision investigation where a knowledge of admiralty law is valuable.

Mr. Kelley. How many lawyers like that have you in the Navi Admiral Latimer. I should say, roughly, 60 in the Navy and Marine Corps.

Mr. Kelley. And they have the various grades and ratings of the rvice?

Admiral Latimer. From captain down.

Mr. Kelley. Have you any lawyer admirals?
Admiral Latimer. I am not sure. We had one but he is retired.

OFFICE OF JUDGE ADVOCATE GENERAL.

SALARIES.

Mr. Kelley. For the office of the Judge Advocate General you id in your regular appropriation \$28,810.

Admiral Latimer. \$38,060 in 1922.

Mr. Kelley. For your statutory roll?

Admiral Latimer. Yes, sir.

Mr. Kelley. Let us keep to the statutory roll and take up the lumpım roll later.

Admiral Latimer. I had it in a lump sum last year.

Mr. Kelley. Are you sure about that, Admiral? Admiral LATIMER. That is what it states here, sir.

Mr. Kelley. At the bottom of the first column it says "statutory, 28,810." That is the right amount, is it? Admiral LATIMER. Yes, sir.

Mr. Kelley. And you are asking this year for \$29,810?

Admiral Latimer. Yes, sir.

Mr. Kelley. How do you account for the increase of \$1,000? Admiral Latimer. We are taking over two clerks that we had from ie Secretary's office, one at \$1,400 and one at \$1,200. We had two

erks in our office from the Secretary's office, with total salaries of 2.600, so that there is really a reduction and not an increase.

Mr. Kelley. Then you take in two, one at \$1,400 and one at \$1,200, ad lose one at \$1,600, so that makes the \$29,810. Admiral Latimer. Yes, sir.

Mr. Kelley. Its is not an increase?

Admiral Latimer. It is a decrease, sir.

Mr. Kelley. And no new positions?

Admiral Latimer. That is right.

Mr. Kelley. It is a transfer?

Admiral Latimer. Yes, sir. Then one \$1,600 clerks is promoted **\$2,**000.

Mr. Kelley. Do you promote the \$1,600 clerk?

Admiral Latimer. He is a law clerk and we can not get along ithout him.

Mr. Kelley. He takes the other position?

Admiral Latimer. Yes: he takes the \$2,000 position.

Mr. Kelley. And you vacate that place?

Admiral Latimer. Yes, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. Last year you had \$6,000 in the lump sum and you e asking the same amount for 1923.

Admiral Latimer. Yes, sir.

Mr. Kelley. Two attorneys at \$3,000 each.

Admiral Latimer. Yes, sir.

Mr. Kelley. And you have them now?

Admiral Latimer. Yes, sir.

Mr. Kelley. Is that all you have?

Admiral Latimer. Yes, sir.

Mr. Kelley. We are very much obliged to you.

THURSDAY, MARCH 23, 1922.

OFFICE OF NAVAL RECORDS AND LIBRARY.

STATEMENT OF CAPT. D. W. KNOX.

SALARIES.

Mr. Kelley. What is your position, Captain?

Captain Knox. I am in charge of the Office of Naval Records and Library.

Mr. Kelley. You had this year \$21,000, and you are asking how

much for next year?

Captain Knox. I am asking for \$20,000.

Mr. Kelley. And that comes about by dropping one clerk?

Captain Knox. At \$1.000; yes, sir.

Mr. Kelley. Is he dropped out or sent somewhere else?

Captain Knox. We will have to drop him out.

Mr. Kelley. Is that all there is to it?

Captain Knox. I have another item on the next page.

NAVAL WAR RECORDS.

Mr. Kelley. That item relates to naval war records, and I presume they have reference to the World War?

Captain Knox. Yes, sir.

Mr. Kelley. This year you had \$20,000 and you are asking for \$19,000 for next year?

Captain Knox. Yes, sir.

Mr. Byrnes. How long is it going to take you to complete these

records?

Captain Knox. Well, it is very difficult to estimate. Of course. there is a great mass of papers to be sorted, but I think probably 15 years, at the present rate. The Secretary of the Navy has specific proved a recommendation to try and increase the clerical form when the state of the Treasury will warrant it, so as to utilize the supervisory force to better advantage, thus saving overhead by reducing the number of years it will take.

Mr. Kelley. What did you start out to do when you commenced

on this job?

Captain Knox. Congress appropriated money for the collection and classification, filing, and indexing of these documents with view to publication. The method followed with respect to the Col War records was to print everything, which makes an enormal number of records to be printed, and I recommended that the Secretary ary approve a general policy which contemplated the printing of aly selected documents, the most important, and that the remainder f the work should be covered by the writing of a general history. a that way it will reduce very greatly the number of volumes to printed. I have here a paper which goes into a little detail on at.

Mr. Kelley. You say it will take 15 years?

Captain Knox. That is an approximate estimate; it may take 10 d it might take 20, because the section was not started until after e war finished.

Mr. Kelley. How do you get these records?

Captain Knox. The records from London have been received and e records of most of the activities which have ceased have been nt in; there is a general order to send in all records. It remains go through the files of the department and the going concerns nich have still retained their records.

Mr. Kelley. This is for the purpose of preserving the historical

uation of the war?

Captain Knox. The records of the war itself; all the activities of Navy Department during the war.

Mr. Byrnes. Of our Navy, or are you covering all the activities of

her navies?

Captain Knox. Primarily for our Navy and incidentally other Lvies in so far as they are directly concerned with our Navy.

Mr. Byrnes. And that would take you 15 years with this force? Captain Knox. It has been estimated that there are about a million per to go through. Of course, we do not file all of them; the sortg eliminates perhaps 80 per cent of them.

Mr. Kelley. For instance, you take Admiral Sims. I suppose he

ad great quantities of material over there?

Captain Knox. Yes, sir.

Mr. Kelley. He sends that here and you sort that over; is that

Captain Knox. That is the scheme and that has been done, that articular part.
Mr. Kelley. That has been finished?

Captain Knox. Yes, sir.

Mr. Kelley. Where else do you go to get your records?

Captain Knox. In the Navy Department, the various navy yards, nd the various naval districts. In addition to Admiral Sims's own fice there are the records of each office in Europe, the records of sch ship that participated in the war, and so on.

Mr. Kelley. Just in what form do you preserve the records? Captain Knox. The Civil War method was to print practically very document, but that would be very expensive and take a very ong time, and after that was finished you would not have anything So the present proposal is to print nat was worth the expenditure. nly those of special value and interest and to cover the remainder **f** the work by a general history.

Mr. Byrnes. And you are determining what is of special value? Captain Knox. Yes, sir; that has to be done in the historical

Mr. Byrnes. Who does it? Do you perform that duty? Do you etermine the value of the documents?

Captain Knox. I am the head of the office and I have a number assistants, but we have not yet gotten to the point of determin what to print. We are simply segregating and building up archives.

Mr. Byrnes. This was done at the end of the Civil War! Captain Knox. We have not finished the Civil War records.

Mr. Byrnes. Are you working on them?

Captain Knox Yes, sir; in the library. We have not finished Spanish War, the Mexican War, the War of 1812, or the Revo tionary War, either.

Mr. Kelley. How valuable is this?

Captain Knox. As valuable as any history is.

Mr. Kelley. There will be so much of it that nobody will ever it after you get it finished?

Captain Knox. That was true of the Civil War.

Colonel Roosevelt. I think you will find that every person w takes up naval history will refer to these records. No one will n them as a book, but if we have historians they would want the formation. As a book of reference it would be vitally necessary: anybody writing history.

Mr. Kelley. It will contain the reports of admirals, reports of

gagements, and that sort of thing?

Captain Knox. Yes, sir.

Mr. Kelley. How much of a history will you write?

Captain Knox. I can have no idea until the archives approcompletion; perhaps eight or ten volumes, roughly.

Mr. Kelley. You approve of this, Colonel? ('olonel Roosevell'. Yes, sir; we certainly ought to have it.

Mr. Kelley. Why would it not be a better plan to get the pri pal actors of the war to collaborate and write a history?

Captain Knox. That is one argument for finishing this w

quickly.

Mr. Kelley. Do you not agree that this should be completed in

than 15 years?

Admiral Coonty, Yes, sir; if we had the money. I am still gett volumes of the records of the War of the Rebellion started by St tor Cockrell for me probably 25 years ago; there are 78 volum That is still coming out. You could complete this in five year you had the force?

Captain Knox. Yes, sir; more than double the force.

Colonel ROOSEVELT. It is not only the history, but the compilat of statistics which can be used for reference hereafter.

Mr. Kelley. Why do you want to hire somebody at \$2,000? Captain Knox. To secure somebody with judgment to pick what is important and what is not-rather a high-class man.

Mr. Kelley. If they detailed a good retired officer, perhaps

could do it very well.

Captain Knox. I have three reserve officers. There is some de

about their continuing after the 1st of July.

Mr. Kelley. I dare say that among the retired officers you find somebody specially fitted and adapted to this work and would like to do it.

Admiral Coontz. It would very greatly increase the cost.

Mr. Kelley. A retired officer would do it for nothing.

Admiral Coontz. You order him to active duty and give him his llowances, and you would find that \$2,000 would not last long.

Mr. Kelley. He would do it better.

Admiral Coontz. The \$2,000 man would be much more permanent. In the other hand, Congress by special legislation put three of them here to last until the 30th of June, 1922. They may retain some of them.

Captain Knox. Permanency of personnel in this kind of work is very important. That is the reason for asking for one high salary.

Mr. Kelley. I would not think that you would get a very reliable and well-prepared man for \$2,000. The employee who is now getting \$1,800 is to be promoted to \$2,000. That is the only change you have nade in the pay roll?

Captain Knox. Yes, sir.

Mr. Lunenburg. There is one less at \$1,000.

Mr. Kelley. That leaves how much for this work?

Captain Knox. Nineteen thousand dollars, instead of \$20,000, appropriated last year.

Mr. Kelley. This will carry the work along about as it is going

now ?

Captain Knox. Just about the same.

Mr. Kelley. How many employees have you altogether doing this work?

Captain Knox. Fifteen clerks are employed at the present time, besides three reserve officers and myself.

COMPLETION OF NAVAL RECORDS OF THE WAR OF REBELLION.

Mr. Kelley. The next item is "Toward completion of the publication of 11,000 copies of the official records of the Union and Confederate Navies in the War of the Rebellion, \$4,500." Have you started that?

Captain Knox. That represents the printer's estimate for work now in his hands. It is a reappropriation of money formerly turned back into the Treasury from an old appropriation. They thought that they did not need it, but the cost of printing has gone up.

Mr. Kelley. The work is in his hands? Captain Knox. In the printer's hands. Mr. Kelley. How large a work is this?

Captain Knox. It is the last volume proper of the records of the Rebellion. I suppose it is about 400 pages.

Mr. Kelley. How many volumes of this work?

Captain Knox. This is the thirtieth volume. There remains only the general index to be completed.

Mr. Kelley. Will it be paid for out of the \$4,500?

Captain Knox. No; the general index is not to be paid for out of this appropriation.

Mr. Kelley. That will come later? Captain Knox. That will be next year.

Mr. Kelley. This is the last volume of the history? Captain Knox. The last volume of these records.

I have a short paper here approved by the Secretary of the Navy, which perhaps you would like to incorporate in the record.

Mr. Kelley. Yes, sir. (The statement submitted by Captain Knox follows:)

DECEMBER 19, 1921.

From: Officer in charge historical section.

To: Secretary of the Navy.

Via: Director of Naval Intelligence and Chief of Naval Operations.

1. In order to facilitate the work of this office it is deemed advisable at this time to decide upon general policies respecting its future activities. Approvi of such policies now will permit the work to be planned and prosecuted in a more orderly and economical way than is possible under present condition.

2. The small number of the personnel in the historical section has heretofor

limited its work principally to the preparation of necessary replies to many queries received from members of Congress and civilians throughout the The gradual reduction in the volume of these demands has permitted recently the organization of the section primarily for the purpose of building up the historical archives. A great quantity of documents still remain distributed in many parts of the naval establishment. These require cardi examination and many eliminations before final incorporation in the archiva This work of selection, arrangement, and filing is a task of very considerable magnitude and will require a number of years to complete with the present personnel of the section. The sooner it is finished the more economical and efficient will be the result, since the work is facilitated by the fact that a large number of persons familiar with the incidents of war and with the various files of the Navy still remain in the service.

3. The principal economy that would result from an early completion of the work of filing and indexing is the saving in overhead charges. The present force supervising this work could supervise efficiently a subordinate force several times greater. Of the present overhead approximately \$10,000 annuals could be eliminated upon the completion of the archives. Salaries of s ordinate clerks employed in archive building aggregate \$17.380. Probably this force can complete the work in about 20 years. By doubling the subordinate force, without increasing the supervisory force, the work could be completed in half the time; about 10 years. A saving of \$10,000 overhead for 10 years amounts to \$100,000. Similarly if the present subordinate fore be quadrupled the time would be reduced to 5 years and the saving increase to \$150,000. These savings would be even greater if the salaries of the supervisory force, some of whom are reserve officers, should be increased in cosequence of promotion. The doubling of the present subordinate force would create 12 additional clerks and require an increase in the current appropriation for the office from \$19,000 to about \$35,000, and would permit archives to be complete in about 10 years. Quadrupling this subordinate force would require a total office appropriation of about \$70,000 and result in completion of archive in about 5 years.

4. The intention of Congress, as expressed in the appropriation act, is the the historical selections shall be printed ultimately. If the plan adopted to the records of the War of the Rebellion, which involved the publication of stantially the entire collection, be followed in the present case the result will ki a poor return in proportion to its necessarily great cost. Its mere bulk we forbid intelligent interpretation, analysis, and digestion of its contents; much of the greater part can not prove of even casual interest to the aver person. Of course, there are many documents so interesting and valuable historically as to require their publication; if for no other reason to insure the preservation of their subject matter. The selection of these from the bear of the historical archives will be a process additional to the task now in preress of building up these archives with documents retained from many that are eliminated. The future second selection will result from the needs for reason

able economy in printing and rational utility of the volumes.

5. The need for making available to the country at large the sense of historical archives as a whole, will require a distillation of them in the of a general history. Utility and economy will both be served much better this way than by the publication of the entire archives. At present the torical section is preparing and publishing a series of mone graphs on variety aspects of the war, with a view to satisfying public inter But these graphs are necessarily incomplete, and in some respects inaccurate, due to sources from which they are drawn; for the archives are themselves as

r from complete. Furthermore the publication of monographs of detached rts of the naval effort during the war can not fill the broader need for a imprehensive understanding of that effort as a whole. There appears to be satisfactory course but to undertake the preparation of an official history

the archives reach approximate completion.

3. The nature of the work in progress, and in prospect, obviously requires great degree of both specialization and permanence among the supervisory resonnel of the historical section. The last appropriation act authorized retention on active duty in this section of three reserve officers until July, Unless the work of the section is to be handicapped seriously this auorization should be made permanent and a way kept open for the reten-In of the officers mentioned.

The technical knowledge of officers must be combined with the special

alities of the professional historian if a satisfactory naval history is to be oduced. Hence it is strongly urged that previous recommendations of my edecessor and others for the appointment of a well-qualified civilian historian

the historical section be adopted by Congress.

8. The following recommendations are therefore made for adoption as Licies; to be carried out as closely as circumstances permit, and where necesmy being urged upon Congress on appropriate occasions:

1. Moderate expansion of the office force, as practicable under a limit of about 0,000 annually in funds, with a view to completion of the work of archives

Iding in about five years.

Publication of a series of preliminary monographs upon certain of the byy's principal war activities. (This has been done with the object of satisang public demand for such matter at a reasonably early date.)

3. Ultimate publication of a limited number only of the original archive recuments, selected with reference to their special interest and importance.

✓. Ultimate preparation and publication of an official general naval history of

e war.

5. Maintaining permanence of the supervisory force of the office, most of whom e already specialized in the work.

6. Continuation of present force of three reserve officers and appointment of Le or more well-qualified civilian historians within about two years.

D. W. Knox, Captain, United States Navy.

NAVY DEPARTMENT, Washington, D. C., February 21, 1922.

rom: The Secretary of the Navy.

D: Officer in charge, historical section.

La: Chief of Naval Operations.

□bject: The mission of the historical section. eference: (a) Your letter of December 19, 1921.

1. The recommendations made in subparagraphs 2, 3, and 4 of paragraph 8 of reference (a) are approved and will be considered from this date as the mission the historical section. The recommendations made in subparagraphs 1 and are approved and have already been forwarded to the Judge Advocate Genal with the directions that he will, when later directed, prepare the necessary zislation.

T. ROOSEVELT, Acting.

THURSDAY, MARCH 23, 1922.

OFFICE OF CHIEF OF NAVAL OPERATIONS.

TATEMENTS OF ADMIRAL R. E. COONTZ, CHIEF, AND LIEUT. COMMANDER H. W. HILL, AID.

SALARIES.

Mr. Kelley. This year for the statutory roll you have \$25,650. Ow much are you asking for the coming year? Admiral Coonty. An increase of \$1,000 for the chief clerk.

Mr. Kelley. What is the salary of chief clerks generally through the largest and the salary of chief clerks generally through the salary of chief clerks gen

out the department?

Admiral County. \$2,250. This item appears in all of the bur Commander Hill. That was the decision of the Secretary, they were decidedly underpaid and should be increased.

Mr. Kelley. This is the only change in your statutory list?

Admiral Coontz. Yes, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. For your temporary roll you have \$40,000 this y. How much are you asking for next year?

How much are you asking for next year?

Commander Hill. For next year we are asking for a total \$33,720. There is a little change to be made in the estimates as prin

If I go right down the list you can make the changes and I explain them afterwards.

Mr. Kelley. Yes, sir; proceed.

Commander Hill. In the principal clerk, \$2,000, the number ske be changed from four to three. There was a duplication. One we person who is now chief clerk in the Bureau of Aeronautics, who transferred We should like to retain the wording authorizing usemploy not more than four at \$2,000 each, because we have two three people at \$1,800, and should the reclassification bill not through, without increasing the appropriation, we would like a kelole open so as to let us give one a promotion. That does not increasing the appropriation at all.

The estimates as submitted call for three at \$1,800 each W Captain Watts, who was talking to you the other day in regard to letter that the Secretary had submitted for a photographer to charged against the appropriation for gunnery exercise and enging performances, you asked that that be not considered under appropriation, but that it be brought up when we were considerable this part of the bill. The effect of that would be to change thre \$1,800 to four at \$1,800. Having stricken out one at \$2,000 means.

net decrease in the total of \$200, \$33,720.

Mr. Kelley. In all other respects the figures are the same as

the current year?

Commander Hill. No. sir. This indicates a decrease of \$3.500 this year's expenditures. This is a net decrease of 6 per cent in amount left after the people we have working for aeronautics transferred.

Mr. Kelley. It is the same as you had, except those to be in

ferred to other bureaus?

Commander Hill. No. sir; it is 6 per cent reduction on what have left after all the readjustments are made.

Mr. Kelley. The only change is that which you have already

cated, except the transfers?

Commander Hill. The only change shown here on the prisestimates.

Mr. Kelley. How many officers are detailed to the office of

Chief of Operations?

Commander Hill. For that part of the operations covered by part of the clerical appropriation there are 35 officers.

Mr. Kelley. Have you the grades?

Commander Hill. No, sir: I could put that in the record with the iks of the officers.

Mr. Kelley. You need not put in the grades, just the number. Commander Hill. I can tell you the various sections coming under s office. I do not know whether you understand just what it

Mr. Kelley. If you will put a short statement in the record that 1 save time.

OTE.—The divisions concerned are: Chief's office, war plans division, policy liaison section, chief clerk's office, confidential files, ship movements divia, material division, gunnery exercises and engieering performances divia, file room, submarine division, and naval districts' division.

Commander Hill. There is only one other thing. The work in s office will not be very much affected by any reduction in per-As a matter of fact, the more the operating appropriations reduced the more work it throws on us, because we will have to p tab very much more carefully on the movement of the ships in ler to keep within the reduced appropriations. The more you the appropriations the more work it means for the administering these appropriations on the operating part.

Admiral Coontz. The Chief of Naval Operations has within the

st year, commencing in July, had to take over an enormous amount Budget work, and it has been done without any increase in the rical force; on the contrary, I propose to reduce the total force out 6 per cent for the next fiscal year.

THURSDAY, MARCH 23, 1922.

FICE OF DIRECTOR OF NAVAL COMMUNICATIONS. STATEMENT OF COMMANDER L. NOYES, DIRECTOR.

SALARIES.

Mr. Kelley. You have this year for your statutory roll \$150,000?

Commander Noyes. Yes, sir.

Mr. Kelley. And you are asking for how much for next year?

Commander Noyes. \$134,300, sir. Mr. Kelley. This is the radio business?

Commander Noves. Yes, sir.

Mr. Kelley. And the telephone and telegraph?

Commander Noves. Yes, sir: the handling of all the commercial ounts for the entire United States in addition to all the Governnt departments.

1r. Kelley. How many employees have you altogether?

Commander Noyes. Ninety-four, sir.

Ir. OLIVER. How many of those are enlisted men?

Ommander Noves. None, sir. Ir. Oliver. All civilians?

Commander Noves. Yes, sir. This is a reduction of 13 from this ir, \$15,700 from the current year, but \$8,500 of that is transferred, the actual reduction is \$7,200.

Mr. Oliver. What is the pay of the 94 civilian employees?

Commander Noves. \$134,300. There are no increases, only & creases.

TELEGRAPH OFERATORS.

Mr. Kelley. Do you have to have all of these telegraph operator. Commander Noves. Yes, sir.

Mr. Kelley. How many telegraph operators have you?

Commander Noves. 17 this year and 16 next year. That include the chief telegrapher and the telegraph supervisors.

Mr. OLIVER. What proportion of your business is commercial!

Commander Noves. In the Navy Department? Mr. Oliver. In this particular department.

Commander Noves. There is a great deal of work in a comment sense which we have to perform for the other Governments and the United States as a whole. The International Radio Telegral Convention requires one office in each country to clear the no accounts of all ships of that country. After a conference of State Commerce, and Navy Departments in 1913, this work was assigned to the Navy Department to carry out the treaty.

Mr. OLIVER. What part of your work is not strictly naval?

Commander Noves. That is a part of the work.

Mr. OLIVER. What proportion does that bear to the naval series

which you perform; is that strictly naval work?

Commander Noves. No. sir. It was assigned to the Navy De partment by this treaty which the United States is bound to.

Mr. OLIVER. Does that constitute the larger part of the work!

Commander Noves. I should say one-quarter.

Mr. Kelley. Is your telegraph office open all night?

Commander Noves. Yes, sir.

Mr. Kelley. How many operators are there during the night! Commander Noves. It is on a sliding scale. Each man work eight hours a day—the civilian employees. They come on at dif ferent hours, so at the time of the greatest load there will be the most on. The result is that they vary in time. For instance, 4.30 they will be like that [indicating], so that the peak load will be covered by the largest number of operators.

Mr. Kelley. Is it necessary to have the office open all night?

Commander Noves. Yes, sir.

Mr. Kelley. Did you do that before the war?

Commander Noves. Yes, sir.
Mr. Kelley. How many operators did you have before the war! Commander Noves. I was not here at that time. I would say

Mr. Kelley (interposing). Mr. Curtis might be able to tell! Mr. Curis. No; I do not know the number. I can put that the record.

Mr. Kelley. It was not more than one?

Commander Noyes. Before we entered the war? Yes, sir.

Mr. Kelley. I mean before 1914.

Commander Noves, Originally there was one operator in Navy Department. The various offices did their business indivi-

Mr. Kelley. And they got their telegrams from the main

sent out to them?

Commander Noves. Yes, sir.

Mr. Kelley. And they did not deliver the messages from the cenral office until morning, probably? Commander Noves. No, sir.

Mr. Kelley. It seems like a large number—17 operators?

Commander Noyes. One point in connection with that, the Navy Department at that time did nothing in connection with the other Government departments. Now we handle for all the Government in Washington an increased amount of their business by radio and by leased lines, which amounted to \$1,000 last week.

Mr. Kelley. What do you do with the messages which come in

after office hours?

Commander Noves. The officer on watch, if it requires action, calls up the appropriate officer of the Navy Department by telephone.

Mr. Kelley. At his house? Commander Noves. Yes, sir.

Colonel Roosevelt. That is done quite often. I have been called

up at all times on various matters.

Commander Noves. Before the war, the department was closed at night. At the time when the *Maine* was sunk in Habana Harbor the telegraph company did not deliver the message until the next morning.

Mr. Kelley. You need 17 operators?

Commander Noves. Sixteen.

Admiral Coontz. You have made a reduction this year of how much?

Commander Noves. \$7,200, 6 per cent, although the work has increased rather than decreased.

THURSDAY, MARCH 23, 1922.

OFFICE OF NAVAL INTELLIGENCE.

STATEMENT OF COMMANDER R. E. INGERSOLL.

SALARIES.

Mr. Kelley. You had a statutory roll of \$16,500 last year. How

much do you want this year?

Commander Ingersoll. The estimates for this year were \$17,650 for the same number of clerks. Two hundred dollars of the increase is accounted for by the transfer of an \$1,800 clerk to the office of Naval Intelligence and by the transfer of a \$1,600 clerk to the Secretary's office. This does not involve any change in the total for the Navy Department. There is an increase of \$950 in the salary of he chief clerk to bring his salary up to compare with that of the hief clerks of other offices in the Navy Department like the Hydroraphic Office, Naval Observatory, and others, which, I believe, was pproved by the Budget Officer and the Secretary. The present hief clerk of the Office of Naval Intelligence has been there 34 years and he has had no promotion in 20 years.

TEMPORARY EMPLOYEES.

Mr. Kelley. You have a lump sum this year of \$15,000. How

much are you asking for next year?

Commander Ingersoll. We ask this year for \$13,380, which is a reduction of \$1.620, or more than 5 per cent. That will be for 11

Mr. Kelley. Do you have any special representatives of vour

office in foreign countries?

Commander Ingersoll. Not under these rolls. All of these clerks are in the Washington office.

Mr. Kelley. Your representatives abroad are carried under Pay

of the Navy?

Commander Ingersoll. They are all carried under Pay, miscl

laneous.

Mr. Kelley. Do you have any special sorts of investigations that you did not undertake before the war, or have you discontinued all of your war investigations in the United States?

Commander Ingersoll. This estimate does provide for informa-tion at home or abroad. This is all for the office work here in the

Navy Department Building in Washington.

Mr. Kelley. The Naval Intelligence work on the outside is carried-

Commander Ingersoll (interposing). It is all carried under the appropriation Pay, miscellaneous.

Mr. Kelley. This is merely for the clerical end of it? Commander Ingersoll. Yes, sir; right here in the Navy Department Building.

THURSDAY, MARCH 23, 1922.

BUREAU OF ENGINEERING.

STATEMENT OF REAR ADMIRAL JOHN K. ROBISON, CHIEF.

SALARIES.

Mr. Kelley. Admiral, you have this year \$39,390 for your stattery roll. How much are you taking off for next year?

Admiral Robison. We ask for the same amount as last year. with the following exceptions: An increase in the chief clerk's pay from \$2,250 to \$3,250. Whether, or not you find it practicable to grant that I feel that it is my duty to invite your attention to the fact that this man is worth that money and more, and that he saves his pay seven times during the course of the year. Second, I decrease the number of \$1,600 clerks from five to four, and the number of \$1,200 clerks from seven to five, to allow for transfers to the office of the Secretary and to the Bureau of Aeronautics. Other than these transfers the were no decreases in the statutory roll.

TEMPORARY EMPLOYEES.

Mr. Kelley. You have a lump-sum appropriation of \$100,000 this year, and you are asking how much?

Admiral Robison. We are asking \$80,000. That appears to be considerable decrease; but that decrease is not entirely a saving. 1 nown by the record, some of them are transfers, but there is a very posiderable net decrease.

Mr. Kelley. How many clerks have you, all told?

Admiral Robison. We had last year 118, and we have now on the ureau's rolls 94.

Mr. Kelley. And you are asking for how many?

Admiral Robison. Sixty-eight on the lump-sum roll and 28 on the atutory. I will say further, Mr. Chairman, that if I find it possible make a cut in that number I will do so.

Mr. Kelley. What is your opinion about that? Do you think you

ill be able to do that?

Admiral Rorison. I intend to do so. This appropriation, I think, an, perhaps, well be compared by adding the two figures with the spenditures for 1916 or 1917. It is considerably larger; but we are indertaking to do considerable additional service to what we were bing then. When you make the comparison I would invite your tention to that fact. In the first place radio has expanded, as we now; second, there has been introduced a system of sound work, bout which you have heard but little, but with which we are doing me rather remarkable things. In addition we are very much impoving our service of information to the fleet as to methods and ractices. That appears not so much on this page 64, for salaries of erks, as under the head of the limitation for draftsmen and technical inployees for the Navy Department on page 65.

DRAFTSMEN AND OTHER TECHNICAL EMPLOYEES.

Mr. Kelley. How much do you figure you can cut this item? Admiral Robison. That item this year is \$190,000.

Mr. Kelley. You should be able to make quite a little cut there, dmiral?

Admiral Robison. I expect to make some cut.

Mr. Kelley. I notice that on February 14 you had 67 people on our technical roll.

Admiral Robison. Yes, sir; I think that limitation should be at east \$175,000. I have asked for \$184,000.

Mr. Kelley. It seems to me that you could reduce somewhat in our bureau.

Admiral Robison. I have now under way 150 problems of design at are being handled by the technical force. If I do them—I own methods, and I do not have to pay licenses when I buy material a account of patents. That means the saving of a considerable m. There are 150 problems under consideration and most of tem are problems pertaining to the simplification of the means of teration. I am speaking of radio work chiefly.

Mr. Kelley. You had 26 technical people before the war?

Admiral Robison. We have 67 now and the only reason we have t more than that is because I have not yielded to insistence on the rt of other people. They are performing a very difficult service, d some of them are very important. They, I think, are vital if we nt to be successful.

Mr. Kelley. Does this number 67 include your inspectors?

Admiral Robison. Out in the field: no, sir. Ir. Kelley. These are people in the office?

Admiral Robison. The inspection force has been cut within the last four months by approximately \$150,000. It is now comparable with the pre-war figures.

Mr. Kelley. You would like to have these technical people go

along?

Admiral Robison. Yes, sir.

Mr. Kelley. For that you want \$175,000?

Admiral Robison. I do not think you could afford to go belor that. We have asked for \$184,000.

Mr. Kelley. That is pretty large.

Admiral Robison. You can cut that if you will: but, if you do it will cost in other places much more. These are the men I am using to find means by which I can save money, and they are successful They have been weeded out and I have no worthless men there.

THURSDAY, MARCH 23, 1922.

BUREAU OF CONSTRUCTION AND REPAIR.

STATEMENT OF REAR ADMIRAL DAVID W. TAYLOR, CHIEF.

SALARIES.

Mr. Kelley. You have \$59,830 for your statutory roll: How mul are you asking for next year?

Admiral Taylor. Just enough increase to raise the pay of the chief

clerk, Mr. Chairman.

Mr. Kelley. I do not suppose we have jurisdiction of that here. We passed a resolution not to increase salaries pending this reclassification. While it is a hardship, and while I know that these clerks are valuable, I am afraid that we can not do it.

Admiral Taylor. I have been asking you to raise the pay of that chief clerk for seven years. He is absolutely entitled to it, and he's

very much underpaid for the work that he does.

Mr. Kelley. In all other respects your estimate is identical with the appropriation for the present year?

Admiral TAYLOR. Yes, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. You have a lump-sum appropriation of \$80,000: You

are cutting that down how much?
Admiral Taylor. To \$56.530. That is largely due to the fact the we transferred 15 men to the Bureau of Aeronautics. The real

based upon what we retained, is from \$63,370.

In connection with the clerical force, I would like to call we attention again to the diagram showing the way our work has up and down and how the force has gone up and down. That ch shows the new numbers of correspondence and that is a fairly curate gauge of the work coming in and going out of the Bure You will observe how the line went up during the war, and shows that our numbers have gone down steadily as the work

one down. We dropped there, as you will see, when the Bureau of eronautics took over a part of the work and part of our people.

DRAFTSMEN AND OTHER TECHNICAL EMPLOYEES.

Mr. Kelley. You are asking how much this year for your techical list?

Admiral Taylor. For the technical list the estimate was \$214,000.

Mr. Kelley. That number was 74 on February 14.

Admiral Taylor. We had \$275,000 last year, and 25 of the force eve been transferred to the Bureau of Aeronautics.

Mr. Kelley. Have you transferred some since the 14th of Feb-

лагу?

Admiral Taylor. No, sir; not since the 14th of February.

Mr. Kelley. This number here shows 74, making a total of 200.620.

Admiral Taylor. Yes, sir; that is correct. The estimate, I think, as \$214,000, but at the present time we are spending at the rate of 200,000. I would like to invite special attention to the fact that in the 1st of March we had two less on the technical list than we and on the 1st of July, 1916. At that time we had 76, and now we have 74.

Mr. Kelley. You want about \$200,000?

Admiral Taylor. \$200,000 will cover the present force.

THURSDAY, MARCH 23, 1922.

BUREAU OF ORDNANCE.

TATEMENT OF REAR ADMIRAL CHARLES B. McVAY, JR., CHIEF.

SALARIES.

Mr. Kelley. Admiral, you had this year \$31,830 for your statutory oll.

Admiral McVay. The estimate for next year is \$32,830, which in-Ludes \$1,000 recommended for the chief clerk, who has been in the There are the stream of th

Mr. Kelley. If that is not granted—

Admiral McVay (interposing). It will be the same as last year.

Mr. Kelley. That is your statutory roll?

Admiral McVAY. Yes, sir.

TEMPORARY EMPLOYEES.

Ar. Kelley. For your additional employees, what is the estimate? Admiral McVay. The estimate for the additional employees is duced from \$40,000 to \$36,400.

Mr. Kelley. Does that mean a reduction or transfers?

Admiral McVay. There were no transfers, and it is a reduction. Let makes a reduction of three positions at \$1,200, and two of are already vacated.

Mr. Kelley. You have in all in your office how many employed: Admiral McVay. Fifty-four clerks, and there are 24 technical men. The estimate for next year is the same as the appropriation for this year.

DRAFTSMEN AND OTHER TECHNICAL EMPLOYEES.

Mr. Kelley. You have a limitation of a certain amount here! Admiral McVay. We have a limitation of \$70,000.

Mr. Kelley. That is the amount you want for next year?

Admiral McVay. Yes, sir. We can not reduce this amount at all We have reduced it as far as we can.

Mr. Kelley. I do not suppose there is much comparison between

your bureau and what it was before the war?

Admiral McVay. Before the war we had a great deal of this work done at the navy yards and stations, but now we do our original design work in the bureau, where the officers have the technical force convenient. Then we go over all the new construction and that installations on new ships.

Mr. Kelley. The exact amount is \$64.970.

Admiral McVay. It is \$67.349 to-day. One place was vacant and

was filled by a transfer. It is now \$67,349.28.

Mr. Kelley. You think that the difference between your technical service now and that before the war is due to the fact that a goid deal of it was done at the navy yards, whereas the bulk of it is not done in the bureau?

Admiral McVay. Our design work is done here, that is, the original design work. The working drawings are made at the may vard and stations.

Monday, March 20, 1922

BUREAU OF AERONAUTICS.

STATEMENTS OF REAR ADMIRAL WILLIAM A. MOFFETT (CHER).
LIEUT. COMMANDER R. M. GRIFFIN, COMMANDER E. S. LAID.
COMMANDER T. G. ELLYSON, AND MR. B. B. MOORE, BUREAU MINES.

REORGANIZATION OF BUREAU.

Mr. Kelley. Admiral, have you any brief general statement which you would like to make before we take up the details of your mate, about the situation as a whole?

Admiral Moffett. I would like to state that we thought, even a sidering the financial situation, that we were justified in asking \$21,500,000. That was later on cut, when the Budget was made, \$17,000,000. This year we were cut from last year's appropriate (\$20,000,000) to \$13,413,431. We have gotten on this year, do the best we could with the money. We have done that by cut down activities and not spending a cent on shore that was not a sidered absolutely necessary, or something that led directly to activities, getting the planes in the air and getting away from a activities as much as possible.

Mr. Kelley. How about the organization of your new bureau;

ow is it working out?

Admiral Morrerr. The bureau went into actual operation the 1st f September last. We employ in the bureau seven less officers than e did before, and we have, I think, one clerk less—that is, in the treau itself—than we had before. We expected to save more, as a atter of fact, but when we got actually into operation we found at most of the people that were transferred to us were those who discoupied the minor positions in aviation affairs. There were any other people in the department under the different bureaus who re really doing some aviation that were not transferred to us.

Mr. Kelley. Do you have a statutory list of your bureau or do

u pay the clerks from the lump sum?

Commander Griffin. The law says that the people, in the discren of the Secretary of the Navy, performing aviation duties in the Ferent bureaus were to be transferred to the Bureau of Aeroutics.

Mr. Kelley. You pay them out of a lump sum, or do they receive tutory salaries?

Commander Griffin. The clerks transferred to us are paid this

ar out of the other bureaus' appropriations.

Mr. Kelley. Are the salaries fixed by law or are they paid out of

ump sum? Commander Griffin. I think the salaries as transferred were fixed

law. I think the Sections whether over the same that.

Mr. Kelley. I was asking whether or not you had a statutory list, tain people at salaries fixed by law?

Commander Griffin. The chief clerk in the bureau is one. Mr. Kelley. That is the only employee whose salary is fixed? Commander Griffin. No. sir; there are four others.

Mr. Kelley. How are the other salaries fixed?

Commander Griffin. We have no discretion in the matter; we eived these employees from other bureaus.

Mr. Kelley. Did you take them at the salaries they were receiving fore?

fore:

Commander Griffin. Yes, sir.

Admiral Moffert. We brought that up by writing a letter which s sent to you some time ago and in which we asked to be allowed 3.010. The Budget went in at \$43.000. That was gotten up in a phurry; we had to get our reports in.

Mr. Kelley. Then, you took these employees from the other

reaus?

Admiral Moffert. Yes, sir.

Mr. Kelley. And transferred them to your bureau at the same aries they were receiving?

Admiral Moffett. That is right.

Mr. Kelley. If they were statutory employees in the other bureaus u carry them on your roll as statutory employees?

Commander Griffin. We never had a roll. They are paid by a old bureaus of the Navy Department.

Mr. Kelley. And when your bureau was organized you paid them om your bureau?

Commander Griffin. No. sir. We have had their services, but by have been paid from their old bureaus.

Mr. Kelley. When you start in the 1st of July you intend to pay

them yourself!

Commander Griffin. Yes, sir. That appears in the bill. The total of \$43,000 was submitted for the Budget a few days after we went into action and before all the employees were transferred to Aviation.

Admiral Moffert. There was a letter written to you. There was a effort made by the chief clerk, Mr. Curtis, to try to make the salar compare with the other bureaus. We had no leading people. For instance, the different bureaus transferred to us low-salaried people. We had to get on the best we could with what they gave us.

CIVILIAN OFFICE FORCE-SALARIES,

Mr. Kelley. You have a chief clerk at a salary of how much! Commander Griffin. At the present salary of \$2,250. The prosion proposed in the bill is that all chief clerks shall be increased \$3,250.

Mr. Kelley. You have submitted an estimate for one financial clerk at \$2,400, one correspondence clerk at \$2,000, one file clerk at

\$2,000, and one stenographer at \$1,800?

Admiral Moffett. Yes, sir.

Mr. Kelley. Have you those positions now in the bureau! Admiral Moffert. No. sir; we have not the financial clerk. We

have people performing those duties.

Commander Griffin. The present person performing the duties of financial clerk is getting \$1,200 a year.

Mr. Kelley. You have some one in the bureau doing the work

which you propose to have done by this financial clerk?

Commander Griffin. I do this work, assisted by a \$1,200 clerk. Admiral Moffett. The other bureaus have permanent finance.

Admiral Morrett. The other bureaus have permanent financial clerks, and I think it is important to have one permanently and keep the financial accounts of all of our appropriations, and so forth

Mr. Kelley. When the bureau was organized you were authorized

to have a chief clerk!

Admiral Moffett. Yes, sir.

Mr. Kelley. And then you were authorized to have such other help as the other bureaus doing this work should detail to you!

Admiral Moffett. Yes, sir.

Mr. Kelley. What authority have you, under the law, to crest

other positions??

Commander Griffin. It is a question of the construction of the law. The law says that the Secretary is authorized to make the transfers.

Admiral Moffert. The act of July 12, 1921, provides, that—

The Secretary of the Navy is authorized to transfer to the Bureau of her nautics such number of the civilian, technical, clerical, and messenger permeted, together with such records, equipment, and facilities now assigned acronautic work under the various bureaus of the Department of the Nav or Marine Corps as in his judgment may be necessary.

Mr. Kelley. They have been assigned now and your bureau is stup!

Admiral Moffett. Yes. sir.

Mr. Kelley. Does not that fix your status?

Admiral Moffert. No. The other bureaus, with few exceptions, are us just as little as they could. They said that they could not et along. They gave us just as few as they could, the low-salaried erks, and we have gotten on with them as best we could. This is a effort to reorganize the clerical force of the bureau so that we will so n a par with the other bureaus.

Mr. Kelley. When these clerks were transferred, did they bring

:les with them?

Commander Griffin. Yes, sir; most of them were stenographers d typists.

Mr. Kelley. What you want is a lump sum of \$56,010 for clerical

ce?

Admiral Moffett. Instead of the \$43,310.

Commander Griffin. But we do not want to pay the salaries at ce. We do not have any intention of immediately filling those sitions.

Mr. Kelley. If this extra \$1,000 is not given to the chief clerk, nat about the other salaries? You would not want to pay the chief ark \$2,250 and the financial clerk \$2,400?

Commander Griffin. No, sir. We have nobody at present drawing

at salary.

Mr. Kelley. \$2,400?

Commander Griffin. Yes, sir.

Mr. Kelley. What is your present pay roll?

Admiral Moffett. \$52,750.

Mr. Kelley. Upon what basis was this cut made to \$43,000?

Commander Griffin. It was not cut. This figure went into the udget Department the 4th of September. The clerks were not transferred instantaneously on the 1st, when the Bureau of Aeronautics as formed. Thirty-five clerks were transferred, the other bureaus inding everybody they thought they could. Then they sent four Iditional clerks who arrived too late to get into the Budget.

Mr. Kelley. What is the total number of clerks now?

Commander Griffin. Forty-four, including clerks loaned, and one leaney.

Mr. Kelley. And your total pay roll per month is how much? Admiral Moffett. This includes the people who are loaned to us,

•2,750—charitably loaned to us.

Mr. Kelley. That is what your yearly pay roll would be with the resent force?

Admiral Moffett. Yes, sir.

Mr. Kelley. And you would like to provide four supervisory posions?

Commander Griffin. Yes, sir.

Mr. Kelley. Which would amount to how much in addition? Commander Griffin. \$8,200.

Admiral Moffert. No: only \$5,000.

Commander Griffin. It does not check because the present pay oll includes clerks loaned in addition to those transferred.

Mr. Kelley. If we do not increase the salary of your chief clerk he balance will be \$55,010?

Commander Griffin. Yes, sir.

Mr. Kelley. If you are not going to fill the financial clerk's posion we could take out \$2,400 more?

Commander Griffin. No, sir.

Mr. Kelley. How much?

Commander Griffin. We would not want you to take out the financial clerk's position. Unless we are going to discharge people we have now we will have to have \$52,750.

Mr. Kelley. That is your present pay roll?

Commander Griffin. Yes, sir.

Mr. Kelley. What you are asking is \$55,010 and \$1,000 extra for the chief clerk?

Commander Griffin. That is it.

Mr. Kelley. Have you followed in your estimates for this yar the language of the bill closely as it was authorized last year?

Admiral Morrett. The wording is pretty much the same, but we have lumped it so it would be similar to the other bureaus.

Mr. Kelley. It is very difficult to make exact comparisons unless you follow the appropriations that have been made heretofore.

Admiral Moffert. The details are given later on page 127.

EXPENSES INCIDENT TO PERSONAL SERVICE.

Mr. Kelley. Suppose we take up item No. 2, "For expenses incident to personal services; for aviation, clothing; for lodging clothing, subsistence, etc.," \$50,000. What are the details of the item?

Admiral Moffett. We explain it pretty much in detail there. The items are: For aviation clothing, \$20,000; for lodging, clothing, subsistence, and expenses incident to flights in aircraft, and payments in settlement of expenses in connection with the safekeeping, packing, and shipping of aircraft landed away from ship or station. \$20,000; and for incidental expenses for ships, stations, inspectors offices, such as photographing, technical books and periodicals, stationery, supplies, and instruments, \$10,000.

Mr. Kelley. What did you pay this item out of last year, or what

are you paying it out of now?

Commander Griffin. Out of maintenance.

Mr. Kelley. That is a part of maintenance, repair, and operation! Admiral Moffert. We paid it this year out of maintenance.

Mr. Kelley. There is an item in the current appropriation of \$49.250 for navigational, photographic, and aerological equipment, including repairs thereto, for use with aircraft built or building on June 30, 1921. Where is that included?

Commander Griffin. That is included under several subheads.

Mr. Kelley. This item 2 is a new item entirely?

Commander Griffin. Yes, sir. Of course, we pay that expers right along.

Mr. Kelley. How do you arrive at the figure of \$50,000, or what

do you base that on?

Commander Griffin. We put that in before the bureau wifformed, and it was based on very inadequate information. I think the present indication is that it should be more. That is the reson why this method was introduced. When these expenses mixed up in an item of four or five million dollars, they get los in the shuffle.

Ir. Kelley. I wish you had stuck to the language of last year's. It would make it easier. This appropriation is made in lump, anyhow, is it not?

ommander Griffin, Yes, sir; it always has been.

Ir. Kelley. Suppose we start on page 124 of the bill. Can you give us a statement of what you want that is fairly equivalent hat first paragraph for aircraft and accessories in course of conction and manufacture?

dmiral Moffett. We have put in there \$250,000.

Ir. Kelley. Give us the details of that.

dmiral Moffert. This year we have \$440,000. We cut that bese when we made an estimate of \$21,500,000 we were told to cut \$4,500,000. Therefore we went over the estimates and cut it re we thought it would do the least harm.

COST OF CONSTRUCTION OF GIANT BOAT AND "ZR-1."

[r. Kelley. What aircraft have you under construction now?] dmiral Moffert. The ZR-1 and the giant boat.

[r. Kelley. The ZR-1 is under construction?

dmiral Moffett. Yes. sir; the giant boat has been stopped in er to save expense. We stopped that boat, but I would like to sh it. That giant boat was stopped because we did not have the sey.

r. Kelley. How much did you ask for originally under this item

400,000?

dmiral Moffert. I have not that information with me. r. Kelley. How much will it take to finish the ZR-1? dmiral Moffert. It will require \$400,000 next year.

r. Kelley. Have you any balance on hand? dmiral Moffert. Yes, sir; we have some now.

r. Kelley. How much is your balance?

dmiral Moffert. The last balance on that appropriation, I think, about \$200,000.

r. Kelley. You have not used much of that?

dmiral Moffett. The ZR-1 is largely under contract for mad, and we are employing a few men to fabricate her material ne factory. We have reached the point where we can employ men to start her erection at Lakehurst. That is what we are g with what is left of the appropriation now.

r. Kelley. How much will it take to finish her?

Imiral Moffett. About \$400,000. r. Kelley. From this point on?

lmiral Moffert. No, sir; from the 1st of July.

r. Kelley. You will spend \$300,000 between now and the 1st ulv?

Imiral Morrett. I hope so. We will probably spend \$200,000, etween two and three hundred thousand dollars.

r. Kelley. You will spend all of the balance of this fund in during the balance of this fiscal year?

lmiral Moffett. I hope so; yes, sir.

r. Kelley. What is her exact condition now?

Imiral Moffert. She is being fabricated at the factory. Her less are being fabricated and then transferred to Lakehurst, re she will be put up in the hangar at Lakehurst.

Mr. Kelley. How much has been spent on her up to date? Admiral Moffert. About \$1,500,000.

Mr. Kelley. Give us the exact amount.

Admiral Moffert. We had spent to January 31, 1922, \$1,200.00, and we have spent or obligated up to date \$1,400,000. It will ost \$600,000 more to complete her.

Mr. Kelley. You have spent or obligated \$1,400,000 on her?

Admiral Moffert. Yes, sir; that much or more.

Mr. Kelley. You have either spent or obligated that amount!

Admiral Moffett. Yes, sir.

Mr. Kelley. It will take \$200,000 more?

Admiral Moffert. \$200,000 this year and \$400,000 next year.

Mr. Kelley. Besides the \$1,400,000?

Admiral Moffett. Yes, sir. The total cost will be \$2,000,000.

Mr. Kelley. Then, up to the 1st of July you expect to expend \$1,600,000 on her?

Admiral Moffett. Yes, sir.

Mr. Kelley. Then you want \$400,000 with which to finish be next year?

Admiral Moffett. Yes, sir.

Mr. Kelley. Then, how will \$250,000 finish it?

Admiral Moffert. It will not finish it.
Mr. Kelley. Will it run on another year?

Admiral MOFFETT. No, sir. What we will try to do will be to sw something here and there from other items. We try to follow the subheads as far as we can, because we take that as an indication the the members of the committee want us to spend it according to the subheads.

Mr. Kelley. Where there is an item carried for which you know exactly how much money will be required, would it not be better to write that amount in the bill and reduce some other amounts the are uncertain? If you know that you can spend \$200,000 that you have on hand between now and the 1st of July, and that it will tal \$400,000 next year to finish it, why would it not be better to give you \$400,000 in this item rather than the \$250,000 you have asked to with a view to squeezing it out of some other item?

Admiral Morrerr. That is all right, if you take it off somewhat

else, but that estimate was made up last July.

Mr. Kelley. It will not cost more than \$400,000 to finish it, will Admiral Moffert. I hope not; no, sir.

Mr. Kelley. How much have you left out of the giant-boat all

ment?

Admiral Mofferr. The giant boat was supposed to be finished of the \$440,000, but we stopped work on her because we thought ZR-1 was more important.

Mr. Kelley. Were you building the giant boat out of the \$440. Admiral Moffett. It happened to be but partly completed the 1st of July, and the intention was to take her up and finish but when the necessity came for cutting down, we stopped work her so as to spend the money where it was more needed.

Mr. Kelley. Which one of these items were you charging the penses of the giant boat against? Have you spent anything on

giant boat at all?

Admiral Morrett. Yes, sir; the power plant is completed and cost, ith the original experimental engineering investigations and data, out \$150,000; only about \$50,000 worth of work has been done on e hull; the original estimated cost of the giant boat complete was out \$450,000.

Commander Griffin. The work was stopped on her last fall.

Mr. Kelley. Do you know what funds you were building her

Admiral Moffert. I think in the beginning the funds came from w construction and experimental subheads.

Mr. Kelley. Not out of the appropriation for aircraft that was ider construction?

Admiral Moffett. No, sir.

Mr. Kelley. Was not that giant boat started quite a long time to?

Admiral Moffert. I think two years ago.

Mr. Kelley. Then it would be under this item for aircraft under enstruction on June 30, 1921, would it not?

Admiral Morrerr. Yes. I know that when I came here, and I we been here a little over a year, this appropriation was cut to 13,413,000, and I was saving in every way, and that was one of the vings we made.

Mr. Kelley. You do not want to do anything on her this coming

Admiral Moffett. Not with the money we have got.

Mr. Kelley. If we gave you \$400,000 for this purpose you would end all of it on the ZR-1?

Admiral Moffett. Yes, sir.

 M_r . Kelley. What will you fill the ZR-1 with when you get her silt?

Admiral Moffert. We will fill her with helium.

HELIUM-AMOUNT ON HAND AND CONTROL OF PLANT.

Mr. Kelley. How much helium have you on hand? Admiral Moffert. We have 2,400,000 cubic feet.

Mr. Kelley. How much will it take to fill her bag?

Admiral Moffett. Two million one hundred and fifteen thousand abic feet.

Mr. Kelley. Who owns that helium—you or the Army?

Admiral Morrerr. Both of us. That is to say, all of the expenses or helium have been paid jointly by the Army and Navy, on a 3-50 basis.

Mr. Kelley. Is the Army turning over to you all of the lighternan-air work!

Admiral Moffett. No. sir.

Mr. Kelley. Are you turning that work over to them?

Admiral Moffert. No. sir. The lighter-than-air situation is this: hat the development and procurement of rigid airships was alloted the Navy by an agreement between the Secretary of War and e Secretary of the Navy, as recommended by the joint board. Since en the Navy has been trying to carry that out. That includes the occurrement of the ZR-2 and the development of the ZR-1, which is built in this country and started here. We have been doing that

It was agreed between the Secretary of War and the retary of the Navy that the helium should be developed jointly.

Mr. Kelley. What I want to know is whether the Navy o this helium!

Admiral Moffett. There is a factory at Fort Worth.

Mr. Kelley. I know all about the factory, but who owns

Admiral Moffert. The Army and Navy both own it. They entitled to one-half of it.

Mr. Kelley. Will you put helium in this bag? Admiral Moffett. Yes, sir.

Mr. Kelley. How do you know that? Admiral Moffert. We have got to do it.

Mr. Kelley. You own only half of it and you will not l

enough!

Admiral Moffert. I think there is every indication of our 2 ahead with it. We have allowed \$250,000 in our estimate for g ahead next year, and the Army got \$400,000 in the bill as it reported.

Mr. Kelley. You have plenty of helium there owned by the A

and Navy to fill this bag!

Admiral Moffett. Yes, sir.

Mr. Kelley. In other words, the Army has 2,400,000 cubic and the Navy has 2,400,000 cubic feet?

Admiral Moffert. No. sir. The Army and Navy together a total of 2.400,000 cubic feet.

DESTRUCTION OF AIRSHIP "ROMA."

Mr. Kelley. What was the name of the ship that was destr the other day!

Admiral Moffert. The Roma.

Mr. Kelley. That was an Army ship, was it not?

Admiral Moffett. Yes, sir.

Mr. Kelley. I noticed in the newspapers that some Army of said that the reason why that accident happened was because it not filled with helium, and that the reason it was not filled helium was because Congress had failed to appropriate the more Is that true?

Admiral Morrert. No. sir: they have helium.

Mr. Kelley. They had plenty of helium, but they did not pe in the sack?

Admiral Moffett, Yes, sir; she held about 1,200,000 cubic They had more than enough to fill her.

Mr. Kelley. You have enough to fill this ship?

Admiral Morfett, Yes, sir. Secretary Denby, Where is that stored?

Admiral Moffett. We have it stored at Fort Worth in flasks Secretary Denby. I want to go back to the Roma a minute you know why they did not put helium in the Roma?

Admiral Moffett. No. sir; I do not. I think it was partly at tion of expense. There was some considerable amount of les in the gas bags, I believe, and I think it was for that reason scause of the expense. It now costs between \$83 and \$84 per thound feet, while hydrogen costs about \$6 to \$10 per thousand feet. The leakage was about 30 per cent per month, or about 1 per cent of an in active flying operations. This leakage is very materially duced if the ship is in the shed, when it falls to about 2 per cent of week.

Mr. Kelley. Do you believe this new one that you are turning out

ill leak like that?

Admiral Moffett. We hope it will not. We are doing all we can reduce the leakage. The leakage of helium is about two-thirds

f that of hydrogen.

Mr. Kelley. They did not put helium in the Roma because they ere not satisfied with the bag, and did not want to waste the helium? Admiral Moffert. I do not wish to speak for the Army, but that true.

Mr. Kelley. They put hydrogen in the bag, and the accident fol-

wed?

Admiral Moffett. Yes, sir; and the loss of life was probably reater, due indirectly to the hydrogen.

Mr. Kelley. They should court-martial that officer. How about

ne *ZR-1?*

Admiral Moffert. I would not send one up without being filled rith helium. I think if we sent a large one up inflated with hydroen gas and we had an accident it would be bad for us.

LLOCATION OF ESTIMATE FOR CONSTRUCTION AND PROCUREMENT OF AIRCRAFT AND EQUIPMENT.

Mr. Kelley. Let us turn to page 124 of the bill: For new construcion and procurement of aircraft and equipment, how much are you sking!

Admiral Moffett. We have asked for \$6,631.450.

Mr. Kelley. Have you a sheet showing how you want to spend hat?

Admiral Moffett. I would like to tell you about the estimate. hat estimate was gotten up last September, according to the details efore you. Since then, while we have not asked for more, the sum tall being the same, we have asked for a change in the details. he catapult has been successful, and we have great confidence in

That estimate was based upon what the planes actually cost, or anes of the type that we put on board ship. It is based upon the tal number they will need. As you will see, it is a little bit more.

Mr. Kelley. More than the total estimate?

Admiral Moffett. Yes, sir. You will see that we estimate for anes affoat, for engines, etc., \$6,501,626. Now, with what we have a hand, or \$2,500,000, it would leave as the balance that we would to have the sum of \$4,001,000.

Mr. Kelley. You have estimated that you will need for new con-

ruction \$6,631,450?

Admiral Moffett. Yes, sir.

Mr. Kelley. And you will have on hand on the 1st of July how uch?

Admiral Moffett. \$2,500,000.

Mr. Kelley. To add to this amount?

Admiral Moffett. We will have that spent by the end of this fiscal year.

Mr. Kelley. I want to know the details of this \$6.631,450.

Admiral Moffert. Instead of \$6.631.450, that figure can be reduced to \$6.501.625. That is what we estimate.

Mr. Kelley. And you estimate the balance available on the la of July, 1922, at \$2,500,000?

Admiral Moffett. Yes, sir.

Mr. Kelley. That leaves \$4,001,625 that you are asking for this purpose next year, is that right!

Admiral Moffert, Yes, sir. Now, then, that estimate, which was

made some time ago, was based on 18 battleships.

Mr. Kelley. Of this \$4,001.625, how much do you estimate will be required for aviation for the battleships?

FOR AIRPLANES AND BALLOONS.

Admiral Moffett. The first item is for fighting planes. We want 129 planes, and we have on hand 39. Therefore we want to get 9.

Mr. Kelley. Ninety fighting planes? Admiral Moffett. Yes, sir.

Mr. Kelley. How much will they cost?

Admiral Moffett, About \$1,080,000. We want 51 three-seater observation planes.

Mr. Kelley. At what cost! Admiral Moffett. \$1,020,000.

Mr. Kelley. What else do you want?

Admiral Moffett. We want 40 one-seater observation planes to cost \$280,000; we want 30 torpedo planes, to cost \$690,000; we want lighter-than-air kite balloons and balloons for the fleet to the amount of \$120,000.

Mr. Kelley. How many do you want?

FOR ENGINES.

Admiral Morrett. Fight. For engines, we want Lawrence 201-horsepower engines.—

Mr. Kelley (interposing). How many do you want?

Admiral Moffert. One hundred and forty-four 200-horsepower engines.

Mr. Kelley. One hundred and forty-four engines, at what cost Admiral Moffert. \$1,180,800. We want 88 Hispano engines to cost \$550,000; 60 Lawrence 60-horsepower engines—

Mr. Kelley (interposing). Are they included in the 144?

Admiral Morrett. No. sir: the 144 are 200-horsepower engines and these are 60-horsepower Lawrence engines.

Mr. Kelley. How many do you want?

Admiral Moffett. We want 60 of those engines, to cost \$240,000.

Mr. Kelley. What else?

Admiral Moffett. Eighty-one converted Liberty engines, \$\\$40.500. We have them, and the conversion will cost \$500 apiece.

Mr. Kelley. Is that all of it? Admiral Moffett. Yes, sir.

Mr. Kelley. What about spare parts?

Admiral Moffett. They come in underneath. We brought them in ter. For structural and engine spare parts, the estimate is \$1,300,325.

Mr. Kelley. What is the total of the other items?

Admiral Moffett. \$5,201,300.

Mr. Kelley. That gives a grand total of \$6,501,625? Admiral Mofferr. Yes, sir.

Mr. Kelley. And you have \$2,500,000 on hand?

Admiral Moffett. Yes, sir.

Mr. Kelley. This appropriation should be \$4,001,625?

Admiral Moffett. Yes, sir.

Commander Griffin. We have that \$2,500,000 on hand, but we ust spend it before the 1st of July, or it will be no longer available. hat leaves \$4,000,000 as the amount needed for next year.

Mr. Kelley. You will spend \$2,500,000 to apply on next year's

quirements?

Commander Griffin. Yes, sir.

Mr. Byrnes. You expect to spend that money upon ships which ill not be completed until some time during the next fiscal year? Admiral Moffett. Yes, sir. We have completed the plans to spend

ie money, and we are working on that now.

Mr. Kelley. If we gave you \$4,001,625, it would supplement the and you have on hand now? Admiral Moffert, Yes, sir.

NUMBER AIRPLANES ON HAND AND REQUIRED.

Mr. Kelley. What do you want to buy 90 fighting planes for? of course, these planes do not last more than a year, anyhow.

Admiral Mofferr. I should say more than that; I think we can se them for two years. I would like to tell you about this catapult. Mr. Kelley. There is nothing in here about a catapult.

Admiral Moffett. No.

Mr. Kelley. Then let us keep away from the catapult until we each it.

Admiral Moffett. It has a bearing, because there is no use of utting planes on ships unless you get them off.

Mr. Kelley. I know, and these planes are contingent upon furshing catapults for the ships?

Admiral Moffett. Yes. sir.

Mr. Kelley. We will not have any trouble about that—that is, a asonable number of catapults, and I do not mean by that that you e asking an unreasonable number. How many fighting planes **ve** you on hand now?

Admiral Moffett. We have 39.

Mr. Kelley. And you want 90 more?

Admiral Moffert, Yes, sir.

Mr. Kelley. What is the condition of the 39?

Admiral Moffett. They are serviceable and we expect to use

Mr. Kelley. That will give you 129.

Admiral Moffert. Yes, sir; but it is based on where we put them d what ships we put them on, etc. This plan is a part of a plan have tried to work out, to cover the next five years, and, while

we can not get money that way, we have made a plan for five year and we are trying to ask each year what we need to ultimately care out the whole plan.

Mr. Kelley. How many three-seaters have you?

Admiral Moffett. We have 18.

Mr. Kelley. How many one-seaters? Admiral Moffett. We have none.

Mr. Kelley. How many torpedo planes have you?

Admiral Morrerr. We have 24, but they are not of the type we want-I mean we are improving them. We have gotten a new torpedo plane which is better than anything we have on hand now.

Mr. Kelley. What is a torpedo plane?

Admiral Moffert. Well, it is a plane that is designed primarily to carry a torpedo of 1,650 pounds, and we have used some of the old planes we had on hand. The twin pontoon planes we now have are used for this purpose but they are not satisfactory, they are not economical, and they have not the performance we should have.

Mr. Byrnes. Has not the experience of the war enabled you to

determine as to the most efficient bombing plane?
Admiral Morrerr. Yes, Mr. Byrnes, but, you see, a plane is built around an engine and you can do so much with an engine, so that when we design a plane we must decide what horsepower we can use, and we have to take into consideration the engines we have For instance, I can give you an example. We are building, and have successfully developed on the Pacific coast, a torpedo plane which we call the Douglass plane. She came up to all the test require ments, the test requirements for altitude, the test requirements for performance; that is, as to the consumption of gasoline and the distance it can go with its full load, and that is the first satisfactory torpedo plane we have had. The other planes were not primarily designed for that purpose.

Mr. Kelley. How many have you?

Admiral Moffert. Well, we built three. Our practice is this: If we want a new plane we build three for trial purposes. The first one we expect to test to destruction, through the sand-load test. order to see whether it is structurally strong enough; then we try one through actual performance in the air and then we have another one in case anything happens.

Mr. Byrnes. It does look to me as though the experience gained a the war and the tests to which the planes were subjected in the war would have furnished you with the necessary information to decid

upon the best type.

Admiral Morrett. You are quite right, and that is what we have done.

Mr. Byrnes. Yet, you have built some which you think are not qui efficient.

Admiral Moffert. For instance, we have built what we call the F5-L and the R6-L, the twin pontoon plane-

Mr. Byrnes (interposing). When did you build them?

Admiral Moffert. They were built during the war, but they old, and we have learned a great deal more since the war. They have found by experimentation, through wind tunnel tests and act tes's, that with the same size plane you can get twice the life. wer, that is, with the same size plane you can lift twice as much

redesigning and experimentation.

Mr. Byrnes. Then you have found out more about these things since war than was found out during the war when they were using

m every day? Admiral Moffett. I would not say that, but when the war came on y had practically no aviation, and they had to jump in and use

at they had.

Commander Ellyson. During the war they had no practical experie with torpedo planes, and it is a new development.

Mr. Kelley. What do you do, just drop the torpedo in the water?

Admiral Moffett. Yes, sir.

Mr. Kelley. It is a great thing, all right, and you want 30 of those? Admiral Moffert. Yes, sir.

Mr. Kelley. Do they work pretty well?

Admiral Morrett. The one we had out there worked pretty well, I we have two more now being completed.

Mr. Byrnes. How many torpedo planes are you asking for?

Admiral Moffett. Thirty.

Mr. Kelley. These are mostly to go on the ships, are they? Admiral Morrerr. Yes, sir! we are going to try to put some on ırd the ships.

Mr. Kelley. That is a rather mild answer.

Admiral Morrerr. There are two types of torpedo planes; there is that is much heavier and that has a higher performance, but what want to do is to use planes that can be carried on board ship. e same plane that carries a torpedo can be used for carrying abs.

NUMBER AND KIND OF ENGINES ON HAND AND REQUIRED FOR 1923.

Ir. Kelley. The engines you are asking for below are to go in these nes, are they?

dmiral Moffert. That is right; ves, sir.

Ir. Kelley. You have 377 of them to go in 219 planes? dmiral Moffert. Well, we must have spares.

Ir. Keiley. As a reserve? dmiral Moffett. Yes, sir.

Ir. Kelley. Are the spare parts for the improved planes and enes or for your old planes?
dmiral Mofferr. Well, they will be for both.

Ir. Kelley. I suppose this is accurately worked out?

dmiral Moffert. It has been accurately worked out; even the s for gasoline, which we have here, are worked out, and the actual we have had to pay.

Ir. Kelley. Most of the engines you now have are Liberty enes, are they not?

dmiral Moffett. Yes, sir.

Ir. Kelley. You do not have to buy any spare parts for them, do

dmiral Moffert. We did have to buy some; yes.

Ir. Kelley. Have you not great quantities of Liberty motors on d?

Admiral Moffert. Yes, sir.

Mr. Kelley. Why do you not tear them down? Admiral Moffett. That is what we are doing; but we are gett near the end of what we have.

Mr. Kelley. I suppose it will not be very long before those engi

will be out of date?

Admiral Moffert. They are practically out of date now. We have improved them by high compression; and the use of dope fuel! increased the horsepower of the Liberty about 10 per cent.

Mr. Kelley. The only thing that strikes me about this list is t

it looks like you are buying too many.

Admiral Moffett. Well, it is based on the ships we are going put them on, and we actually expect to put them aboard ship.

Mr. Kelley. Of the 90 fighting planes, how many would you pect to put on ships? If you can get the same general results in way of training and experimentation without piling up your r tériel so much it saves the Government quite a lot of money, and do not have a lot of this old stuff on hand.

Admiral Moffett. Well, we have provided for planes on batt ships, cruisers, oilers, store ships, transports, ammunition ships.

pot ships, etc.

Mr. Kelley. I suppose if you get airplane carriers you will: have them on these ships?

Admiral Moffett. Yes; we would.

Mr. Kelley. Just the same?

Admiral Morrett. Yes. We think you can put the fighter on a ship at all, on practically any type of ship, and that will do away w some of this terror about what bombs are going to do: bomb planes will do a great deal, of course, but if you have a fighter it is answer to the bombing plane.

Mr. French. Are you developing apparatus on these different sh

so that the fighters can land and also take off?

Admiral Moffett. They can not land but they can take off.

Mr. French. And that is why you need a catapult?

Admiral Moffett. Yes, sir; although I think we will land planes battleships—that is, on redesigned battleships, in time.

Mr. Kelley. What is your stock of Liberty motors now? Has !

the Army a great many of them stored about the country?

Admiral Morrerr. The Army has no available Liberty spare p available for use by the Navy. We asked for them; they say they not spare them.

Mr. Kelley. It seems as though they stored them in Arkan Why did they take them clear to Arkansas? Was it because the wanted to pay the increased freight or because they wanted to] them where they are safe?

Admiral Morrerr. I think they have a flying field out there.

Mr. Kelley. In Arkansas?

Admiral Morrerr. Yes: I think so; perhaps not in Arkansas, in that neighborhood. We have 3.020 Libertys and that inch everything; that is the total number now in the service. All ext 870 are now in use or assigned as spares and have been used; the! are new and in store. About 175 used engines have been disassemble for spare parts, and additional engines worn out or badly damage

also been disassembled and useful parts salvaged for spares. at 100 Liberty engines in stock are reserved to make it possible to obsolete airplanes. I do not think we will have the Liberty but ı very few years longer.

r. Kelley. Do you know how much you have in this \$1,300,000

pare parts for Libertys?

mmander Griffin. Nothing. r. Kelley. This is for spare parts and mostly all for these new

ommander Griffin. Practically all for these new planes.

r. Kelley. You have now given us \$4,001,625 as the amount necy for new construction of planes, spare parts, and engines. Imiral Moffert. Yes, sir.

SUPERVISION OF AVIATION FOR MARINES.

r. Kelley. Have you any other new construction? Imiral Moffett. Yes. We want a total for the marines of \$720,-They want 12 fighting planes, or pursuit planes, as the marines Army call them-

r. Kelley (interposing). They are the same thing, are they? lmiral Moffert. Yes, sir; \$360,000; they also want 12 observation es or reconnaissance planes at \$360,000, a total of \$720,000.

r. Kelley. Why do they not get their planes from the Army?

Army has plenty of these, has it not?

lmiral Moffett. We do get some and we get all they will let us . but sometimes we think we develop a better plane than the y for our purposes. We think our pursuit plane is a little better anything the Army has at present, for our uses.

r. Kelley. Where are they going to use these planes?

Imiral Moffert. They are using them right now in Santo ingo and Haiti. I believe the marines in Santo Domingo and i are doing more in land aviation than any one in the world pt, perhaps, the commercial aviation between Paris and London. the military purpose of the plane is so that the marines will aviation just as they have other branches. They have their ons in Haiti and Santo Domingo and also at Quantico, at least, ice immediately adjoining Quantico.

r. Kelley. How many fighting planes have they now?

Imiral Moffert. Forty.

r. Kelley. What is an observation plane?

lmiral Moffett. That is a scouting plane or a reconnaissance

r. Kelley. It seems to be quite an expensive plane, as these are ost \$30,000 apiece.

Imiral Moffert. Yes; it is.

r. Kelley. Is that a plane with a boat attachment?

lmiral Moffett. No: that is a land plane, sir. ommander Griffin. That is the average cost, Mr. Kelley.

r. Kelley. These planes are not to be used in conjunction with Army but for the independent expeditions of the marines? lmiral Moffert. Yes, sir. While we are talking about the nes I would like to mention the fact that we pay for the marines ell as for the Navy. They are included in our \$17,000,000.

Mr. Kelley. The marines are a part of the Navy.

Admiral Morrerr. Yes; that is right.

Mr. Kelley. Did General Lejeune ask for these?

Admiral Moffert. Yes, sir: the request came through with approval.

Mr. Kelley. Who is the head of aviation in the Marine Corp.

Admiral Moffett. Colonel Turner.

Mr. Kelley. Is he under you?

Admiral Moffett. Yes, sir.

Mr. Kelley. Do you appoint him?

Admiral Moffert. No. sir. He was there when I came here as a matter of fact the arrangement now is that when some or going to be detailed for aviation we recommend it.

Mr. Kelley. Do you have a section in your office for the Ma

Corps.

Admiral Moffert. No: but he is very near us; his office is it next wing to ours; he is in charge of the Marine Corps aviation. it happens that our offices are very close.

Mr. Kelley. Does he have some employees who are not on

roll?

Admiral Moffett. Yes, sir.

Mr. Kelley. I thought you were at the head of the Burea

Admiral Moffett. I am: I think he still uses some people of Marine Corps, but I am not sure about that.

Mr. Kelley. Then we have not accomplished what we set of

do, namely, to put aviation in the Navy in one place.

Admiral Moffett. Yes: you have, because he is practically us, although he is not in the same room.

Mr. Kelley. Physical closeness does not make any differ unless you have control over him and over what he is doing.

Admiral Moffett. We do have, but as the marines are a par the base force—for instance, they are a part of aviation in the f and after it leaves us and goes out the personnel is actually ledled by Navigation and the Marine Corps, and our part is advised However, we keep in touch with what they are doing: we fur them the money and we furnish them with the planes just the as the Bureau of Ordnauce furnishes them with guns: we fun the marines with everything; we furnish them with planes. so on.

Mr. Kelley. How can you furnish them with everything with

inquiring into their needs?

Admiral Moffett. We do inquire into their needs and we be what their needs are. I see Colonel Turner very often, and h as close to us as any other officer in the bureau; he is attached to bureau under my direct orders and is a member of the plans divi of aeronautics: they come to us and consult with us all the t and we give them their money. For instance, we pay for the run of Quantico.

Commander Griffin. We control the money and that is where control lies.

Admiral Moffett. He is no more separate from us than any else and, as I say, they are furnished everything by the Navy.

Secretary Denby. Except personnel.

Admiral Moffett. I mean their ordnance, for instance, is furshed by the Navy, and we furnish everything for aviation.

Mr. KELLEY. Then they have an office which handles their aviation

st as they handle their supplies?

Admiral Moffett. Their aviation is almost entirely personnel.

Mr. Kelley. You furnish all the motors?

Admiral Moffert. Yes. We furnish them with machines, and we nsult with them. Colonel Turner is not only near to us but he nsults with us constantly, and he is as much a part of our bureau any of the others.

Mr. Kelley. But you do not pay any of the expenses of the Marine

orps aviation except for the material?

Admiral Moffett. We pay for all the material, all the gasoline, all e oil, and all the upkeep.

Mr. Byrnes. You supervise the administration of it?

Admiral Moffett. Yes, sir.

Mr. Byrnes. But you do not supervise the personnel?

Admiral Moffett. No, sir. For instance, take Quantico; we pay or Quantico—that is, the extension of Quantico Field—we pay for the hangers, we pay for the improvement of the field, and all of the ings like that.

Mr. Byrnes. What do they pay for?

Admiral Moffert. I do not think they pay anything except the resonnel.

Mr. Byrnes. Everything but the personnel is paid for by you and u control it?

Admiral Moffett. Yes, sir.

Mr. Kelley. Who is your immediate superior in the Navy?

Admiral Moffett. The Secretary.

Mr. Kelley. He is the last one, but who is the next one above

Admiral Moffett. The next one above me is the Chief of Operans.

Mr. Kelley. He controls the fleet and all of these various activi-

Admiral Moffett. Yes, sir.

Mr. Kelley. And tells you what he wants you to do in aviation the fleet?

Admiral Moffett. Yes, sir: but we consult together. We get the ns up and consult with him: we make suggestions to him.

Mr. Kelley. But practically it goes that way—the suggestions me from you?

Admiral Moffett. Yes, sir.

Ar. Byrnes. They are only suggestions until he approves them? Admiral Moffett. Yes, sir.

of r. Kelley. Theoretically he tells you what he wants you to do a of course, he is subject to the orders of the Secretary of the vy?

Admiral Moffett. Yes, sir.

Secretary Denby. Any differences would be settled by the Secrey of the Navy.

Mr. Kelley. I was endeavoring to get the status of this new

Secretary Denby. It is absolutely like the other bureaus.

AIRPLANES FOR SHORE STATIONS.

Mr. Kelley. Is that all?

Admiral Moffert. No; there are the shore stations.

Mr. Kelley. You are still on new constructions, are you?

Admiral Moffett. Yes, sir. Mr. Kelley. What do you say this is?

Admiral Morrett. These are the shore stations at Pearl Har Coco Solo, and so on.

Mr. Kelley. What are these—buildings? Admiral Moffett. No; these are planes.

Mr. Kelley. For those places?

Admiral Moffett. Yes; torpedo planes.

Mr. Kelley. Some more planes?

Admiral Moffett. Yes, sir; on shore. We have only taken those afloat.

Mr. Kelley. What is the sum total?

Admiral Moffett. \$50,000 apiece.

Mr. Kelley. How many of them are there?

Admiral Moffert. There are 30, the total being \$1,500,000.

Mr. Kelley. Thirty shore planes? Admiral Moffett. Yes, sir.

Mr. Kelley. And they are to be distributed among various she stations!

Admiral Moffert. Yes. They are estimated for Pearl Harb Coco Solo, the Panama Canal, and Guam.

Mr. Kelley. And seven or eight at each place?

Amiral Place. Eighteen at the first place, eight at the secon

Mr. Kelley (interposing). What sort of planes are they?

Admiral Morrerr. There are two kinds of torpedo planes we make small and as light as possible, but sufficient to do the wo so that it can be carried on board ship, and the other type wo have to operate with a tender. The latter is very much more pow ful; it has greater performance; its altitude is higher and it is a m heavier plane, weighing about twice as much. They are two tinct types.

Mr. Kelley. What business have you with airplanes on shore!

Admiral Moffert. We have a great deal.

Mr. Kelley. I thought that was all the Army work, to take c of the shore?

Admiral Moffett. They do take care of the shore, but I do

think they are fitted for the offshore work.

Mr. Kelley. We are getting all piled up with the same gent work being carried on by two or three different branches of service.

Admiral Moffert. I do not believe they are piling up on us. I not think the Army should be doing any offshore work at all.

Mr. Kelley. Is this offshore work?

Admiral Moffett. Yes, sir. These bombing experiments, send land planes to sea, they may do that if a land plane is protected v destroyers every 10 miles. In peace times it is all right to sem land plane over the water, but personally I do not think.

Mr. Kelley (interposing). You think the Navy should take to

of the offshore?

Admiral Moffett. Yes, sir.

Mr. Kelley. If the Navy takes care of that, what would the Army

doing?

Admiral Moffert. They would have to look after the rest of it; at is my personal opinion. Another part would be scouting off-

Mr. Kelley. Who has the legal control of the coast defenses? Admiral Moffert. I think it is very much involved. The regulaons say that the predominant force under the Army they will conol and under the Navy the Navy will control; it depends on the articular circumstances.

Mr. Byrnes. Does not the Army operate offshore?

Admiral Moffett. No. sir.

Mr. Byrnes. If the Army operated offshore with land planes, hat would be the result to the planes if they came down in the

Admiral Moffett. They would be lost.

Mr. Byrnes. Therefore, only seaplanes should be operated any

stance offshore?

Admiral Morrerr. Yes, sir. In time of war, I think that the land anes could do some work 50 miles off, but I think anything farther an that would be exceptional. The present arrangements under e regulations of the joint board are that the Navy is supposed do the locating and scouting.

Mr. Byrnes. You have a joint board?

Admiral Moffert. Yes, sir; a Joint Board, and the scouting for

e enemy would be a function of the Navy.

Mr. Byrnes. What do they say is the function of the Army in ference to the coast defenses as the enemy approaches the shore? Admiral Moffert. I think they would use land planes if the emy came close enough. I think that any over-the-water work ould be done by seaplanes, as far as you possibly can.

Mr. Kelley. How many airplanes has the Army at Coco Solo? Admiral Moffett. I do not know. I think they have a few more an we have. They use land planes. Those land planes they use

imarily over the land. Our force goes over the water.

Mr. Kelley. But it is their idea that they can go out and scout r a long distance?

Admiral Moffert. I do not think so.

Mr. Kelley. If they can fly a thousand miles over the land, why n not they fly over the water?

Admiral Moffert. Because if they fly over the water and the

igine stops, they must come down.

Mr. Kelley. The same is true if they are flying over the land? Admiral Moffert. They are trying now to get these landing elds so that they can fly safely over the land.

Mr. Kelley. You want \$1,500,000 worth of airplanes for Coco

olo, Hawaii, and Guam?

Admiral Moffett. Yes, sir. Mr. Kelley. How much at Guam?

Admiral Moffett. \$300,000.

Secretary Denby. They are perfectly legitimate under the treaty.

Mr. Kelley. What else do you want?

Admiral Moffett. The main thing is to get the \$17,000,000. you give us the total-

Mr. Kelley (interposing). But we are interested in the deta

Admiral Morrett. They are smaller ships.

ESTIMATE FOR LIGHTER-THAN-AIR CRAFT.

Mr. Kelley. What is the rest of the new construction? Admiral Moffert. A total of \$612,000 for lighter-than-air.

Mr. Kelley. What is that for?

Admiral Moffett. One is a nonrigid. Mr. Kelley. How many of those?

Admiral Moffett. One.

Mr. Kelley. How many lighter-than-air craft?

Admiral Moffett. Then we have five small nonrigid airshi with the type of balloons they have.

LIGHTER-THAN-AIR CRAFT BEING BUILT BY GERMANY FOR THE NAVY.

Mr. Byrnes. Have we any ship being built abroad at this tin Admiral Moffett. No, sir; we have none. There is one in t way—it has not been started. We are entitled to receive from Germans, under the reparation, two. There has been a great d of opposition as to this on the part of our friends, the Allies. after a great deal of negotiation they have agreed to let us have large rigid. We tried to get one very up to date of 100,000 cu meters capacity, but we finally compromised on one with al 70,000 cubic meters capacity, which is a little smaller than the Zh There was a dispute in regard to it, but finally we got the Coun of Ambassadors to agree to let us have this one. There is a displ as to how much the Germans should get credit for. They wa 4.000,000 marks. It looks as though they would only let them has 3,000,000 to 3,300,000 gold marks.

Note.—1 cubic meter equals 35.32 cubic feet.

Mr. Byrnes. Is it completed?

Admiral Moffett. No, sir. Secretary Denby. It has not been touched.

Mr. Byrnes. If built, who will supervise its construction?

Admiral Moffett. We will expect to learn what we can from it. Secretary Denby. The Germans will build it and then destr the plans.

Mr. Byrnes. With our experience of having one built in Gr Britain and one in Italy, I should think that we would try our o

Secretary Denby. We get it free, if built in Germany.

Mr. Byrnes. If it is going to break up in one instance and by up in the other-

Admiral Moffett (interposing). The one built in Germany *

contain the very last word in rigid construction.

Mr. Byrnes. You thought that about the ship that was built England.

Secretary DENBY. This matter is not yet settled. The State I partment is handling it.

Mr. French. Are we not entitled to money in lieu of the ship? Mr. Kelley. If we are, I think we better take the money. Coming back to this \$612,000, what is the next?

KITE BALLOONS.

Admiral Moffert. For the kite balloons used on ship for spotting. Mr. Kelley. I can understand the value of them. How many kite alloons?

Admiral Moffett. Twenty-seven.

Mr. Kelley. How much do they cost?

Admiral Moffett. \$8,000 apiece.

Mr. Kelley. Twenty-seven at \$8,000 apiece, \$216,000. What else ave you there?

TOWING MACHINES.

Admiral Moffett. Five of the nonrigid towing machines.

Mr. Kelley. They are hitched to the ship?

Admiral Moffert. Yes, sir; and in case they get adrift they can ske care of themselves.

Mr. Kelley. How much do they cost?

Admiral Moffett. \$40,000 apiece.

Mr. Kelley. They cost very much more than the heavier-than-air tachines?

Admiral Moffert. They have entirely different engines.

Mr. Kelley. You would not want those things in time of peace? Admiral Mofferr. Unless you train in time of peace, you will not ready in time of war.

Mr. Kelley. It does not take much training in a thing that is

tched to a vessel?

Admiral Moffett. Yes, sir; it does. A great many people do not ant to go on them at all.

Mr. Kelley. What is the rest?

Admiral Moffert. Three training balloons, \$21,000 total.

Mr. Kelley. What is the rest? Admiral Moffett. That is all.

Mr. Kelley. What was the first one?

Admiral Moffett. \$175,000. That totals \$612,000.

Mr. Kelley. How much of that do you want this year?

Admiral Moffert. We would like all of that.

Mr. Kelley. It will take about all the helium you have to fill the ge one. We could let the \$175,000, at least, go. You have 27 aller ones, five nonrigid and three balloons. You had eight ther than air in the original. We could strike out some of those? Admiral Moffert. There is something I want to tell you. This imate was gotten up in a hurry and sent in and the total was only \$610,000.

Mr. Kelley. You have increased it one?

Admiral Moffett. Yes, sir; but the total is the same.

Mr. Kelley. This carries \$612,000. We have carried the eight lloons before in the other item, so we can take them out here? Commander Griffin. Yes, sir; we estimate \$120,000 in the other m: so you can take \$120,000 out.

Admiral Moffert. That will make \$492,000.

COST AND DETAIL OF EQUIPMENT.

Mr. Kelley. What else have you in the new construction?

Admiral Moffert. That is all, except the equipment.

Mr. Kelley. This is the equipment for the craft that we have been talking about?

Admiral Moffert. Yes, sir; \$189,450.

Mr. Kelley. Please give us a short statement about the nature

of the equipment.

Admiral Moffett. Parachutes, turn indicators, servo motors, a extinguishers, speed indicators, sea anchors, oxygen apparate wheels and tires, erection tools and devices, handling trucks, airs and balloon sets, ballast bags, flotation gear, blowers, valves, manueleers, safety belts, hydrogen detectors, etc.

Mr. Kelley. You will put in the record an actual inventory

what is needed!

Equipment for use with service types of aircraft built or building and a supplied with the aircraft, includes parachutes, turn indicators, servo most fire extinguishers, speed indicators, sen anchors, oxygen apparatus, wheels a tires, erection tools and devices, handling trucks, airship and balloon of ballast bags, flotation gear, blowers, valves, manometers, safety belts, hydred detectors, etc.:

Parachutes	\$8,7
Servo motors	21,0
Fire extinguishers	
Air speed indicators	3.7
Sea anchors	4.
Turn indicators	19.
Oxygen apparatus	6.8
Wheels	9,6
Tires	18.0
Erection tools and devices	9. :
Handling trucks	49, (
Airship and balloon nets	8.1
Ballast bags, sand	;
Ballast bags, water	7,:
Flotation gears	
Blowers	
Valves	6.1
Manometers	1.
Safety belts	4.
Hydrogen detectors	1,
· .	

Commander Griffin. Yes, sir.

Mr. Kelley. That is all under new construction?

Admiral Moffett. Yes, sir.

Mr. Kelley. They total up around \$6,631,000.

Admiral Moffett. \$6,903,075.

Mr. Kelley. There is no attempt to reconcile that. That repsents your construction program for aircraft and equipment!

Admiral Moffett. Yes, sir. That is a little more than ours.

Mr. Kelley. That is all there is in new construction?

Admiral Moffert. Yes, sir. The catapult we passed over: we asked \$475,000.

PHOTOGRAPHIC, RADIO, AND MISCELLANEOUS EQUIPMENT AND REPAIRS TO AIRCE

Mr. Kelley. For aircraft, including repairs thereto, built or built or built or June 30, 1922!

Admiral Moffett. I have that detail.

Mr. Kelley. How much is the amount?

Admiral Moffert. The total amount is \$568,500; that includes the lio.

Mr. Kelley. Will we need any navigational radio, or anything of

Commander Griffin. Yes, sir. That appears in the sheets, for lation equipment, navigational, aerological, radio, and miscel-

Mr. Kelley. Then, it will read, "Navigational, photographic, rological, radio, and miscellaneous equipment, including repairs reto, for use on aircraft." What is the sum total?

Admiral Moffett. \$568,500.

Mr. Kelley. How much of this is for radio?

Admiral Moffett. \$403,500.

Mr. Kelley. What is the other \$165,000 for?

MAINTENANCE OF STOCK AT NAVAL OBSERVATORY.

Admiral Moffett. The other is for navigational equipment, conting of instruments to measure latitude or changes in latitude, nepieces, instruments for location of positions, sextants, etc., \$50,-0; new machinery for the development of means of printing photoaphs. \$10,000; for the development of the aerial camera, \$50,000 hose cameras are expensive, and cost \$1,500 each, and they are ing very important work); maintenance of the stock at the Naval pservatory, \$30,000; and replacement of obsolete aerological equipment, \$25,000.

Mr. Kelley. That covers the \$165,000?

Admiral Moffett. Yes, sir.

Mr. Kelley. It seems to me that that item of \$30,000 for the mainnance of stock at the Naval Observatory is a considerable one.

Admiral Moffert. They must go ahead and get instruments for e fleet.

Mr. Kelley. You do not mean maintenance of instruments, do u!

Commander Griffin. This covers a whole lot of things that are read all over the bill.

Mr. Kelley. You would use this as a maintenance fund, or for intenance in the sense of upkeep?

Commander Griffin. For instance, navigational equipment, under is arrangement, will be charged to this subhead, while it is now ing charged to experimental and all along the line.

Secretary Denby. Do you mean new instruments?

Commander Griffin. Yes, sir; they keep a stock on hand, so that somebody writes in for a navigation instrument they will not have wait until they can send out and get one.

Mr. Kelley. This is a sort of revolving fund, is it not?

Commander Griffin. No. sir; it is a stock. Of course, you could thave the inventory down to zero at the end of the year, but it solely for the purchase of new stock.

Mr. Kelley. Then, the word "maintenance" is not the right word, t it should be purchase of stock or purchase of new stock. That is unusual kind of thing, is it not, running a store over there?

Admiral Moffett. No. sir; it is quite usual.

Mr. Kelley. You are getting into a lot of things that I did but suppose we were running into, if you are running stores.

Admiral Moffett. It is not that.

Mr. Kelley. I thought you said that when people wrote in there to buy some little thing, they could secure it without having to wait

Admiral Moffett. Here is the situation: Somebody writes in ani wants a sextant, and if they have it in stock, they do not have to wan for it. They have a reasonable amount of those things on hand.

Mr. Byrnes. What does the stock consist of?

Admiral Moffett. This type of equipment, or navigational equipment.

Mr. Kelley. It is a little reserve supply.

Admiral Moffett. Yes, sir.

Mr. Kelley. Have you ever done this before? Admiral Moffert. We have always done it.

Mr. Kelley. You have always carried it over there?

Admiral Moffett. Yes, sir.

Mr. Kelley. Why does it come in here in connection with airplant expenses? Will not the Naval Observatory be able to get what more

they need for this purpose?

Commander Griffin. No. sir. We have always given them the money for this purpose. The reason why it is confusing is because that \$30,000 is spread throughout the rest of the bill, and you do not see what it is for.

Mr. French. Where was that item carried before the Bureau of

Aeronautics was organized?

Commander Griffin. We always had an aviation appropriation there. Before this bureau was organized, they were getting an allow ment under this subhead, and, in addition, an allotment under experimental work, and the thing became confusing.

Mr. Kelley. Is this item you are carrying here for the Naval Ob-

servatory for repairing your instruments?

Commander Griffix. It is for the purchase of new ones.

Mr. Kelley. You would purchase your own instruments, would vou not?

Commander Griffin. No. sir: they purchase them for us.

Mr. Kelley. When the Naval Observatory comes here, and they are given what they want, you should not be asking anything further for them.

Commander Griffin. They buy instruments for use on ships You can not encroach much upon this appropriation because the are always in a tight situation with it. This work they do for " has always been done on an allotment of money from the Bureau of Aeronautics or by allotment from the Secretary of the Navy from the aviation appropriation.

Mr. Kelley. This is for payment for work done on your equip

ment?

Commander Griffin. Yes, sir.

Mr. Kelley. I would not put it in this way. I do not think the is the way it should be done.

Admiral Moffert. I think they try to maintain a stock of the

Mr. Kelley. They make repairs on machines and instruments!

Commander Griffin. Yes, sir.

Mr. Kelley. If it is for purchase and repairs, it should be put own that way. You have to go over there and get some instruents fixed or regulated?

Admiral Morrett. Yes, sir; we have an officer over there who

eps in close touch with us.

LINTENANCE AND OPERATION OF PLANES IN STATIONS AND THE FLEETS.

Mr. Kelley. For maintenance and operation of helium plant, air tions, fleet activities, aircraft factory, testing laboratories, spares, gines, and hulls, flying, overhauling, and repairing of aircraft and gines you estimate what?

Admiral Morrett. \$6,618,100. We have that in detail by stations.

Mr. Kelley. What are the details on that?

Admiral Moffett. The money requested under this subhead is in cess of the appropriations for previous years. There was approiated \$3,800,007 in 1920, \$6,044,600 in 1921, and \$4,534,181 in 1922. is comparison with previous appropriations is deceptive, because e maintenance charges for each year have been greatly in excess the appropriations. In other words, that means taking funds

om other subheads.

Mr. Kelley. You had authority to use it as one sum, and as you ved elsewhere you supplemented this fund?

Admiral Moffett. Yes, sir.

Mr. Kelley. What are the items?

Admiral Moffert. For fleet aviation, \$450,000 on the Atlantic, and for fleet aviation on the Pacific, \$450,000. This estimate was atten up some time ago, and I believe that more will be required.

Mr. Kelley. What do you propose to do in connection with fleet

iation on the Atlantic that will cost \$450,000?

Admiral Moffett. We allot that to the fleet every month. It goes or gasoline, oil, etc., and covers requisitions for things that they get, or instance, if they want some material that comes from the air-aft factory, it is furnished on requisition. As a matter of fact, e aircraft factory is very largely a big storehouse for aviation suplies. Stores that are gotten for them outside of that are charged their allotment.

Mr. Kelley. Does this include expenses of ships?

Admiral Morrett. No, sir; not for the running of ships, but for a running of the planes themselves and for the replacement of any aterial that is worn out in use, or of anything that is smashed up, anything of that kind.

Mr. Kelley. It does not have anything to do with putting new puipment on ships, but it is just for the maintenance of planes and or the purchase of such gasoline, oil, and other material as is necessary to suggestfully operate them?

sary to successfully operate them?

Admiral Moffett. Yes, sir.

Mr. Kelley. You have not much aviation in connection with the set yet, have you?

Admiral Moffett. We have a good deal.

Mr. Kelley. How many planes are there with the Atlantic Fleet? Admiral Moffett. This is based upon the actual expenditures in e past.

Mr. Kelley. What do you have?

Admiral Moffert. We have the Wright, which carries sea plan we have a torpedo squadron with 12 planes; and we have our f that goes with the mother ship.

Mr. Kelley. This is a large item to be submitted without det Do you say you have spent \$450,000 for upkeep of planes on

Atlantic?

Commander Griffin. We have not spent that much in past re It has been increased because our fleet aviation is increasing, as the expense for fleet aviation goes up the expense for the sh stations is decreased. We know that it will cost us that total amo for maintenance, or at least this amount. We know that we sho have raised that figure, but we try to keep it down as low as possi

Admiral Moffett. We have the Wright in commission now.

Mr. Kelley. How many planes are on the Wright?

Admiral Moffett. We have with the Atlantic Fleet 6 F. (scouting sea planes). 2 NC (scouting sea planes). 11 torpedo pla and 6 kite balloons. These craft are based on the Wright.

Mr. Kelley. Do you know how much you have spent on acre of aviation in connection with the Atlantic Fleet this year?

Admiral Moffert. I can find out. I know that we made an a ment to the Atlantic Fleet. The old appropriation was \$4.534. and I know that we wrote a letter to all of the stations, including Atlantic Fleet, cutting the allotments.

Mr. Kelley. How much was the allotment?

Admiral Moffert. I do not remember the amount. We wrote t a letter saying that when the allotment ran out they must stop, they did stop. We did give the Atlantic Fleet more.

Mr. Kelley. Can you estimate how much the expense was?

Commander Griffin. Those figures you have include the accommander of the state

figures that we had last year, and, incidentally, they are based : the fact that the fleet made no cruise to Panama. These figure have show only a part of the charges, We will have to include data in the record.

Expenditures of air squadrons, Atlantic Ficet, six months, July 1 to Decemb 1921. Public bills:

Shawmut, first quarter Shawmut, second quarter	\$19, 000, 00 21, 000, 00	
Total		\$40,0
Naval supply account material: Shawmut, first quarter	\$23, 767. 03 4, 476, 47	
TotalAppropriation purchase account, material issued on shipping orders;		46. 2
Spare parts	\$27, 250, 00	
Raw material	192.00	
Accessories	1, 070, 00	1
Propellers · · · · · · · · · · · · · · · · ·	645. 00)
Total		29, 1
Total expenditure for six months Rate of expenditure per year		115.4 230.8

NOTE.—During this period the activities of the air squadrons, Atlantic Fleet, re much reduced, due to the limited allotments from the Bureau of Aeronautics I the general inactivity of the Atlantic Fleet. The Shawmut (tender) was the Philadelphia Navy Yard from October 7 to January 4. Present allotments naval supply account material are \$12,500 for March and \$15,000 for April, er expenditures on public bills and for shipments of appropriation purchase ount material will also increase. In 1923 it is expected to considerably augnit the fleet air forces by installing aircraft on surface vessels. Maintenance rges will rise accordingly.

Mr. Kelley. Under this division of the appropriation, do you carry placements?

Commander Griffin. Only for equipment. Under the present contion, everything for the maintenance of aviation is carried under is subhead. It includes keeping the things as they are.

Mr. Kelley. This \$450,000 for each fleet is based upon the plans you

ve for next year and not upon your experience of last year?

Commander Griffin. It was done this way: This figure we had last ar was adjusted to the operations for next year. If there is any iticism to be made of it, it is that we have asked for too small a oportion for the fleet.

Mr. Kelley. That depends upon how much you will do.

Commander Griffin. Our endeavor is to do more in connection that the fleet.

Admiral Morrett. What we have on the fleet will not affect the ork, because we are so far behind.

Mr. Kelley. When you estimate the sum of \$1,000,000 for rather hall purposes you ought to have it more in detail.

Admiral Moffett. We will supply that for the record.

Details of estimate for item "fleet aviation,"

Gasoline plant and tural and and oil. 'accessories.'	Total.
fanti: Fleet. \$230,000 \$110,000 \$110,000 citic Fleet. \$230,000 110,000	\$450,000 450,000

MAINTENANCE AND OPERATION OF SHORE STATIONS.

Mr. Kelley. The next is for shore stations and aviation facilities. Admiral Moffett. For shore stations, the estimate is \$2,646,000. Mr. Kelley. Where will you spend that sum, and in what nounts?

Admiral Moffett. At Hampton Roads, \$385,000; at Pensacola, \$60,000; at San Diego, \$450,000; at Anacostia, \$158,000; at Cocolo, \$160,000; at Guam, \$180,000; at Pearl Harbor, \$80,000; at Uantico, \$128,000; at Port Au Prince, \$55,000; at San Domingo, 0,000; at Cape May, \$25,000. At Cape May we can cut off someing. It should not cost more than the other.

Mr. Kelley. You would take off \$20,000 there.

Admiral Moffett. We can also take off something from Paris land. If we do not use this money at one place we can use it at other. I will tell you about Cape May, Chatham, and Rockaway.

Mr. Kelley. If you have \$5,000 for Cape May, \$5,000 for Chaham, \$5,000 for Paris Island, and \$5,000 for Rockaway Beach, the will make the total how much?

Admiral Moffert. You can reduce Cape May by \$20,000 and

Paris Island by \$5,000.

Mr. Kelley. That leaves \$2,621,000?

Admiral Moffett. Yes, sir.

Mr. Kelley. Let us see if we can do something with the larger amounts, so as to make them correspond with the smaller one What is the occasion for spending \$385,000 at Hampton Roads!

Admiral Moffert. That is a main operating air station on the

coast.

Mr. Kelley. What expenses are included in this item?

Admiral Moffert. I will have to supply that data.

Commander Griffin. It includes every expense of running: the stores, repairs to buildings, repairs to plants, gasoline, oil. and every other expense except new construction. If we build a not station it would not come out of this, and the procurement of mer planes would not be included, but it includes everything in the way of maintenance of the planes and stations.

Admiral Moffert. It includes water, heat, and light.

Mr. Kelley. You do not expect to get \$385,000 for Hampton Roads without submitting any details, do you?

Admiral Moffert. We can give that in detail, but I have not the

data with me.

Mr. Kelley. You must have some general headings.

Admiral Moffett. We can submit that information in the record Commander Griffin. Those details will not be as valuable as we may think they will be.

Mr. Kelley. How much will be for planes and how much for

buildings?

Admiral Mofferr. We can get all of that information for you.

Mr. Kelley. Can you tell how much of it is for planes and expines?

Admiral Moffett. I can not give you any detailed figures right

now

Mr. Kelley. Then you are not in a position to ask for \$385,000. Admiral Moffert. This is based on the experience of the past. Commander Griffin. In order to give a really worth-while figure.

we would have to go back to the stations and get it.

Mr. Kelley. How did you make up this \$385,000?

Commander Griffin. By taking the total amount that we specifin 1922.

Mr. Byrnes. How much did you spend in 1922?

Commander Griffin. We have not that figure here. Hampton Roads under this figure has not got its pro rata share, because the Atlantic fleet was boosted. We estimate that it is costing us maintain aviation under existing conditions a certain sum of more right now, and that amount is around \$6,000,000.

Mr. Byrnes. Will you put in the record a statement shows what you have spent for the first six months of this year, and what

you estimate you will spend for the entire year?

Commander Griffin. I will include that in the record.

NOTE.—On Dec. 21, 1921, \$2,756.536.32 had been spent and obligated for intenance.

Mr. Byrnes. That is the basis upon which you say you made this

Admiral Moffert. We can furnish that.

1r. Byrnes. You have nothing to show how much you allotted

this station this year?

Admiral Moffert. Yes, sir. The payments are made to the stations two ways, one by allotment of the money that they spend at the tion, and the other is by requisitions that come to the bureau. In er to give the complete figure we would have to have both tements.

ommander Griffin. We are alloting about \$12,000 per month. Hampton Roads.

1r. Kelley. For what?

Sommander Griffin. For the expenses that they pay at the station.

Ir. Kelley. \$12,000 per month would be only \$144,000.

Commander Griffin. The rest of the expense of the station is de up by requisitions that they put into the bureau for material. Ar. Kelley. These figures that the admiral has given, aggregat-\$2.646,000, represent the expenditures on the stations and on the

Commander Griffin. Yes, sir; on the stations and the equipment, it is not to add anything to it; it is to keep it in its existing

ιdition.

Ir. Kelley. In the next classification below you have, "Naval craft factory, overhaul of planes issued for service when returned m stations.

Admiral Moffert. That means planes used in the service.

Mr. Kelley. That amount of \$385,000 at Hampton Roads is for maintenance of buildings, grounds, and equipment?

Admiral Moffett. Yes, sir; including water, heat, and light. Ir. Kelley. It includes water, heat, light, and power, and the re-

r and upkeep of planes? Admiral Morrerr. Yes, sir; and some civilian labor, but not much. Mr. Kelley. You said you had been allocating \$12,000 a month Hampton Roads; that would make \$144,000 a year, while you are

ing for \$385,000.

Commander Griffin. That is not all of their expense; that is nething less than half their expense. We do that so they can re something with which to pay their gas bills and their current penses. Then when there are special things they want, like special ation equipment, we consider every request for such equipment parately, and if the request is approved the bureau pays the bill. is sum of \$12,000 is placed there and is spent at the discretion the station; there is a great deal more spent, but whatever is spent addition to that must meet the approval of the bureau.

Admiral Moffett. In 1921 we spent \$6,395,983. I knew there uld be trouble about this and I want to show every expenditure and how much we knew we had spent by past experience. As I

we did spend in 1921 \$6,395,983.

Commander Griffin. We know what we have spent, but the fiscal year in which an account has been made is the fiscal year I Our cost was over \$6,000,000 for that year, and the chief differ between that year and the coming year, 1923, is that during year we used an enormous amount of surplus stock which we not use in 1923.

Mr. Kelley. I am sorry you do not know more about this.

Admiral Moffett. We will find out; of course, we could not be everything up here, but we can prove it all right, because we be what we spent, and we will go and find it and we will show you.

Mr. Kelley. Let us take Pensacola. Do you know any more al

Pensacola than you do about Hampton Roads?

Admiral Moffett. I am afraid I do not know very much me We took Pensacola over as a navy yard, and we do our training the not all of it, but most of the training of officers, warrant officers: enlisted men, is done there, and we have carried a larger civil for there than anywhere else. I do not know how that was. I th probably that was originally because it was a navy vard and t used more civilian labor than anywhere else. A good deal of overhaul work on engines and planes is done by the civil force. that is one of the reasons why the expenditure there is larger. see, at San Diego it is not nearly as much because we have very licivil labor at San Diego. San Diego grew up from nothing: there not as much work is done by the civil force as is done by people themselves.

Mr. Byrnes. Why can you not have more of the work at Pensic done by the people themselves, or is it because they do not know he

Admiral Moffett. Well, I will tell you why, and there are ! The principal reason is that when we try to get more m more enlisted men from Navigation, they will not give them to As a matter of fact, I think in aviation, except for purely manuf turing, the work should be done by enlisted men. I think a pl ought to be like a ship, it ought to have its crew and all of the or haul work ought to be done by the men who are directly connect with the plane, especially as the civil people go home at 4 or 4 So as to aviation we really ought to come to the point where we out to use enlisted men and very few civil people at any operating stati

Mr. Kelley. Will you please put in the record a statement show the distribution of the amounts you have asked for the operation the various shore stations and showing the chief purposes for wh the money is spent, for example, so much for repairs and overly of machines, so much for repairs to buildings, so much for the keep of the grounds, so much for heat, light, and power, and s other general headings as can be furnished from the books.

Admiral Moffett. Yes, sir.

rtails of maintenance and operation of shore stations and facilities.

Class 0, clerical force atten- dants, miscel- laneous labor. and supplies.	Class 1, leave and holiday.	Class 2, power plant, grounds, water- front, commun- ications, fire pro- tection.	Class 3, repairs to build- ings and struc- tures,	Class 4, miscel- laneous equip- ment.	Class 5, repairs plant ap- pliances.
144,000 67,500 22,000 24,000 27,000 19,200 15,000 13,000	\$15,490 38,400 18,000 6,400 6,400 7,200 3,200 5,120	\$19,200 48,000 22,500 8,000 8,000 4,000 6,400 2,000 2,000 2,000 25,800	\$19,200 48,000 22,500 8,000 8,000 4,000 6,400 3,000 3,000 3,000 19,500	\$9, 240 23, 040 10, 800 3, 840 3, 840 4, 320 1, 920 3, 072 2, 000 2, 000	\$3,850 9,600 4,500 1,600 1,800 1,800 1,280
Class 6, repairs to ma- chinery and machine tools.	Class 7, portable power tools.	Class 8, loose and hand tools.	Class 9, super- vision.	Title V, repairs and op- erating expenses of air- craft, in- cluding gasoline and oil.	Total.
3, 150 1, 120 1, 120 1, 260 560 896			\$7,700 19,200 9,000 3,200 3,200 3,600 -1,600 2,560	\$246, 400 614, 400 288, 000 102, 400 1102, 400 115, 200 51, 200 23, 000 31, 000	\$385, 000 960, 000 470, 000 158, 000 180, 000 80, 000 128, 000 55, 000 5, 000 5, 000
	clerical force attendants, miscellaneous labor. and supplies. \$57,750 144,000 67,500 22,000 24,000 12,000 15,000 15,000 13,000 15,000 16,000 16,000 16,000 178,000 17	clerical force attendants, miscellaneous labor. and supplies. \$57,750	clerical force attender class 1, dants, miscellaneous labor. and supplies. S57,750 S15,400 S19,200 144,000 38,400 48,000 22,000 6,400 8,000 22,000 6,400 8,000 22,000 6,400 8,000 12,000 3,200 4,000 15,000 3,200 4,000 15,000 3,200 4,000 15,000 3,200 4,000 15,000 3,200 4,000 15,000 2,200 2,	Class 1, grounds, water-miscellaneous labor. and supplies. S57,750 S15,400 S19,200 M8,000	Class 4, power plant, class 4, repairs class 1, leave miscellaneous labor. and supplies structures, struct

OPERATION AND MAINTENANCE OF HELIUM PLANT.

- . Kelley. We will now go ahead with the aviation activities. he helium plant you are asking \$250,000. Tell us about that, miral Moffett. Last year we were not limited; we put it in a subhead, but when we found the Army had \$250,000 we them, since we had promised to go 50-50, that we would give \$250,000.
- . Kelley. Where is this plant located! miral Moffett. Near Fort Worth, Tex.
- . Kelley. What is the money to be used for? miral Moffett. For the production of helium.
- . Kelley. How many employees have you there? miral Moffett. I do not know but I can find that out. The gement as to belium is this: We have a contract with the Linde

Co., and I can find an pay roll. We have ture this helium and there, and then we less o much a mouth

Note.—When in 101 6 employees maintain men.

Men.

Commander

helium they are

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year they want

Mr. Krinical
operating the

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dmiral Moffett. I think that is what they have in mind.

r. Kelley. Is that full capacity?

dmiral Moffett. Yes, sir.

r. Kelley. How many cubic feet of helium ought we to get out hat?

dmiral Moffett. You mean at present? Ir. Kelley. No; how much for the year?

dmiral Moffett. The production, I think, was about 30,000 cubic a day.

r. Moore. The plant is not absolutely perfect yet, Mr. Kelley; e is still a lot of work to be done in increasing its efficiency; e of the compressors have not been working to the best efficiency to the present time, but when that plant runs at full capacity, as nould do after a few months more, it ought to produce at least 0.000 cubic feet a month.

r. Kelley. How many cubic feet will we get out of this investt of \$800,000?

Ir. Moore. Taking off the money for research work, and things hat kind, they ought to be able to run the plant for about ten iths, and out of that we would get about 10,000,000 feet. We storage, however, for 18,000,000 cubic feet already on the ind. sto:age in containers.

r. Kelley. Why do we want to make so much if we are going take 10,000,000 cubic feet during this year?

dmiral Moffert, If we run a rigid we lose by leakage a little than 1 per cent a day during flying operations.

r. Kelley. You do not mean to say that in 100 days you would it all?

dmiral Moffett. I think you would; yes, sir; provided we operevery day.

r. Moore. Perhaps I could throw some light on that also. The olia Field, from which we get the gas, is almost on its last legs; an it is the old field; it is the field that has had more helium in an any other field in the United States.

r. Kelley. Is this the Petrolia Field?

r. Moore. Yes; Petrolia, Tex.; the gas is piped about 120 miles ort Worth, and it is estimated that that field will only last about or six years longer, and the longer we let that plant stay there the more helium we will lose in the air all the time. We have .000,000 investment there, and if we do not use that investment re going to let the gas go and not be able to ever get it.

r. Kelley. It does not make much difference if we put it in these

oors and lose it in 100 days. cretary Denby. The helium?

r. Kelley. Yes.

cretary Denby, Under those circumstances we would not be h further ahead.

Imiral Moffett. I believe we should go on with what we have a because the present owner of the gas land was paid \$1,500,000 he right to use that land for the helium gas.

r. Kelley. How much of this \$800,000 are you going to use for such work?

r. Moore, \$31,500 is the item.

Mr. Kelley. \$31,500 from each fund?

Mr. Mocre. No: from both funds.

Mr. Kelley. So that the bulk of this will be for the production of

10,000,000 feet of helium?

Mr. Moore. I am giving the figures recommended by the helim board, made up of members of the Army, the Navy, and the Bures Seventy-eight thousand dollars out of the total would of Mines. be for research.

Admiral Moffert. Wait a minute: I have it here. The note an they only expect to get \$500,000, and they estimate for extension work and research work \$26,500. I am taking the estimate of the

helium board.

Mr. Moore. Based on a total appropriation of \$500,000 it will be

just what you say.

Secretary Denby. This question of helium has been up ver acutely throughout the entire Government service; that is, the quetion of policy to be adopted. It has peen up before the Interior Department, before the Navy Department, and before the Wa Department. Fort Worth has been closed down practically entirely has it not?

Admiral Moffett. Yes, sir.

Secretary Denby. What does it cost to keep it going?

Admiral Mofferr. I think it costs us now about \$13.500 a month Mr. Kelley. They are asking \$800,000 for Fort Worth for met year, \$400,000 from the Navy and \$400,000 from the Army.

Secretary Denby. That is the joint board's recommendation? Admiral Moffert. No: we just put in an estimate for \$250,000. Secretary Denry. Let me follow this up. Are you using an

helium now?

Admiral Moffett. No.

Secretary DENBY. You filled one ship and brought her to Wash ington!

Admiral Moffett. Yes, sir.

Secretary Denby. That is the only helium you have used!
Admiral Moffett. Yes, sir.
Secretary Denby. The whole helium question is one that faces the entire Government!

Admiral Moffett. Yes, sir.

Secretary DENBY. The time will undoubtedly come when the miltary services will be prevented from using anything but helium and since it is so acute—this helium matter being before the Cabina and others—I am just wondering whether it would not be advisable to lay this aside until such time as we can adopt a real policy. regard to helium. At the present time the Secretary of the Interior is discussing reservations in different parts of the country in order to get helium, the production of gas, and all that sort of thing.

Mr. Moore. I am in charge of that work for the Bureau of Miss and for the Secretary of the Interior, and that is the reason I here; but all of that program is in addition to these items for the Army and Navy, and it does not take into consideration in any of the items the Army and the Navy have been asking for. In other words, the program which will ultimately go to the Cabinet is #

addition to the money asked by the Army and the Navy.

Secretary Denby. And the money asked by the Army and the

avy is for the one plant at Fort Worth, Tex.?

Mr. Moore. Yes, sir. Therefore, if that program should fall rough and these items were not passed, there would be no money all, and we would be worse off than we were last year, instead of

Secretary Denby. What I mean is, what particular need have we r helium right now, and when are you going to be able to use it in ⇒ little balloons?

Mr. Kelley. The admiral says they would lose it all in 100 days they put it in bags, and there is no way of plugging it up in the gs or recovering it.

Admiral Moffett. What we have we keep in flasks.

Mr. Kelley. Mr. Moore says we can make 10,000,000 feet for that aount of money and that we have storage capacity for about that Lount.

Mr. Moore. We have storage capacity for about 18,000,000 cubic

Mr. Kelley. So we could run the plant down there for nearly two ars and not waste it, but we could store it up?

Admiral Moffert. And he says that this field is rapidly becoming hausted.

Mr. Kelley. So probably we had better go ahead with it?

Admiral Moffert. We have paid to the people who own this field

,500,000 for the right to take the gas out of it.

Mr. Kelley. I do not know whether the helium is going to be eded when you get it and store it, because I do not know whether is lighter-than-air business is going to materialize. However, we e in a generous frame of mind to-day, and you want \$400,000 inead of \$250,000?

Admiral Moffert. I think it ought to be raised, but we will have

take it off of some other place.

Mr. Kelley. I told Mr. Anthony, in charge of the Army bill, that e would do what he did, so if the Army bill grants \$400,000 I am ready committed to that.

COST OF MAINTAINING LAKEHURST.

Admiral Moffert. We had better take something off of Lakehurst. Mr. Kelley. We can take out all of Lakehurst, can we not? Admiral Moffett. No. I would like to go over that some more

see if we can reduce the estimate.

Mr. Kelley. Why can you not close down Lakehurst?

Admiral Moffett. Well, it is closed down now as a flying station; it I think we can reduce the amount for Lakehurst.

Mr. Kelley. Suppose we cut it out entirely?

Admiral Moffett. You will have to allow enough for Lakehurst.

Mr. Kelley. How much?

Admiral Moffert. I do not know without looking into it, and I ill put it down as low as I can.

Commander Griffin. I should take it off of the miscellaneous total. Admiral Moffett. I might take off \$200,000, sir; I think we can et along with \$135,000.

Mr. Kelley. How much did you spend at Lakehurst this yes as I understand it, you had it closed down all the time?

Admiral Morrerr. Yes, sir.

Mr. Kelley. And simply had watchmen there?

Admiral Moffett. No; there were people there from the out outside contractors were working there, and we are doing someting; we are building the mooring mast and doing other work. place is expensive to run because its different buildings are scatt. The power plant had to be a long ways from the hangar.

Mr. Kelley. You think you can get along with \$135,000?

Admiral Moffert. I would like to look into that before you do but, roughly, I think we can take off \$150,000 and put it on the he Mr. Kelley. We have given you \$400,000 on the helium.

Admiral Morrerr. Well, we will have to take it off of some place or it will change your total—\$17,000,000.

Mr. Kelley. I have my eye on another item here.

Mr. Griffin. That miscellaneous item was put in here for just very thing—that is, it was put in there to take charge of just things as these, which always occur.

Mr. Kelley. Suppose we make the amount for Lakehurst \$15

will that be all right?

Commander Griffin. No; that will not run us.

Mr. Kelley. What will run you? Commander Griffin. \$335,000.

Admiral Moffert. Take off \$150,000 and put it on the heliur that will make it \$185,000, but I do not know how we will get on that.

NEWPORT EXPERIMENTAL STATION.

Mr. Kelley. You have an item of \$6,000 for Newport, R. I.

is up there?

Admiral Moffett. We carry on experiments with torpedoes little island up there. The torpedoes are made at Newport, as have three planes there and we experiment with the torpedoes at the torpedo station.

Mr. KELLEY. The reason you carry on your torpedo experithere is because it is more economical and is near the torpedo sta

Admiral Moffett. Yes, sir.

COST OF MAINTAINING NAVAL AIRCRAFT FACTORY.

Mr. Kelley. You have an item of \$400,000 for the naval air factory?

Admiral Moffett. That looks big. Mr. Kelley. Well, tell us about it.

Admiral Moffett. Well, I will have to go back and get more tails about that the same as I will have to do with reference to others. I can give it to you in general but I can not give yo details.

Commander Land. I think I can give you some of the details Admiral Moffett. I do not think you can give any more d than I can; but go ahead.

Commander Land. It is the main storehouse for the whole Boof Aeronautics, and all of the equipment and supplies come! It is the outfitting point.

Mr. Kelley. Is this amount for wages?

Commander Land. For wages in the handling of shipments; yesı**at** is a part of it.

Mr. Kelley. How many men have you there?

Commander LAND. The number fluctuates; but we have there now om 500 to 600 men on production. They are engaged in the storeouse in manufacturing spare parts and in manufacturing experiental planes, in construction the ZR-1, the fabrication of the aterial, testing out planes of an experimental nature, they are ngaged in overhauling the planes sent in from all of the fields and perating stations; they are also engaged in testing such things as arachutes, making engine tests, testing equipment of all kinds and pes. It is generally a large experimental station in addition to eing a tremendous storehouse for the storing of all material. Howrer, it is a very small station if you compare it with a navy yard.

Mr. Kelley. Does this include the pay of those 500 men?

Commander Land. Oh, yes, sir; those who work on maintenance.

Mr. Kelley. How many are paid out of this fund?

Commander Land. All of the mechanical employees are paid out f this fund.

Mr. Kelley. How many by number? Commander Land. It is a fluctuating proposition, but I said beveen 500 and 600 men on production.

Admiral Moffert. We have had at both places 1.300 men.

Mr. Kelley. \$400,000 will not pay 500 men.

Admiral Moffett. No; but we allot work. For instance, take the ork on the Z. R. 1; that will be charged to the Z. R. 1.

That is probably for the maintenance of the aircraft factory, it is

or the heat, light, and power.

Mr. Kelley. These men are there and are working on some job for hich a special appropriation has been made?

Admiral Moffett. Yes, sir.

Mr. Kelley. And paid out of that appropriation? Admiral Moffett. Yes, sir.

Mr. Kelley. What is this \$400,000 for?

Admiral Morrerr. The actual running of the factory itself.

Mr. Kelley. You mean the watchmen?

Admiral Moffett. The watchmen and the firemen who furnish the ower. The light is charged to the factory and any water is charged o the factory.

Commander Griffin. And the upkeep of the buildings.

Mr. Kelley. Please put in the record a table of this \$400,000 disributing the charge the very best you can by purposes for which he money is spent. It does not include much for the payment of the nechanics?

DETAILS OF MAINTENANCE OF NAVAL AIRCRAFT FACTORY.

I. Naval aircraft factory.

\$ 328, 000		- -		ial)	id mater	Clabor ar	ht, heat) Power, lig	7)
	buildings,	r to	repair	plant.	factory	aircraft	f naval	 Upkeep o)
400,000							Item I	Total	

II.—Overhaul of planes before issue to service and when returned from service, etc.

	Labor.	Material.	Total
(1) Hulls	\$569,000 252,000 177,000	\$233,000 97,000 28,000	\$100, M 3.0. C 36, C
Total. (2) Seaplane operation at naval aviation field, labor, material, and overhead.	998, 000	358, 000	1,334.0
(3) Storekeeping expense at naval aviation field for all air stations (excluding naval aviation field) including labor, material, exarting, handling, trucking, etc		' ,	13,0
Total of Item II (1, 2, and 3)		· · · · · · · · · · · · · · · · · · ·	1, 580, 6

Note on Item II.—Between 250 and 300 planes are overhauled annually a

the naval aircraft factory.

Note on Item II (3).—There were 3.402 shipments made in the fiscal year. 1921. These shipments were made in as large lots as practicable, to reduce expenses.

Admiral Morrerr. I have a letter from Lakehurst, which shows a detail where they put their money.

Commander LAND. I was covering the aircraft factory as a whole

AVERAGE COST OF REPAIRING AIRPLANES.

Mr. Kelley. What is the average cost per annum of repairing: plane? If you had 100 planes to keep up, what would you expet them to cost you!

Commander Land. Fifty per cent of the original cost.

Mr. Kelley. What do they cost—\$20,000?

Commander Land. Yes, sir; somewhere in that neighborhood Mr. Kelley. And you would expect to spend \$10,000 on repairs! Commander Land. Yes, sir.

Mr. Kelley. That would mean that you would provide for the repair of 150 planes?

Commander Land. It would depend on how many were operated

Mr. Kelley. What is the total number of planes in operation? Admiral Moffett. One hundred and sixty-seven. money enough to repair 158.

Commander Land. It depends a great deal on the number of

operating hours.

Mr. Keiley. It looks as though all the airplanes would be up #

the Philadelphia Navy Yard.

Mr. French. It depends on the amount of time that the plane is been operated?

Commander Land. Yes, sir.

Mr. French. If you operate it a certain number of hours eng day, then it must be overhauled more frequently than if operated a less number of hours a day on alternate days?

Commander Land. Yes, sir.

Secretary Denby. Do you bring the planes from the west coas!

Admiral Moffett. No. sir.

Secretary Denby. Where do you get them repaired on the coast !

Admiral Moffett. At San Diego.

Mr. Kelley. This is a pretty liberal guess?

Commander Griffin. It is not a guess at all. We have spent in a period this year, which is not a full year by any means, \$1,360,000 there, so that was simply prorated down. It is not a wild guess the money spent there for that purpose.

Mr. Kelley. With only 167 planes on both coasts it does not

m that the figure you have given could be right.

Commander Griffin. That is the operating complement, the numr they are allowed to fly. The total number of planes is much

eater than 167.

Commander Ellyson. You asked me that question, Mr. Kelley. e have allowed an operating complement of 167. The number of anes actually at the operating stations does not include the naval craft factory, the storehouse, or the supply station at Hampen Roads. They come to 484. If you allow an operating compleent of four planes, if one is damaged one of the stand-by planes put in its place and the damaged plane is put in condition.

put in its place and the damaged plane is put in condition. Mr. Kelley. That is 484 planes that are in good condition for eration and it is only a question of sending one to the factory to repaired and taking one out of the stock for the work?

Commander Ellyson. Yes sir.

ITEMS COVERED BY MISCELLANEOUS EXPENSES.

Mr. Kelley. What is the miscellaneous item of \$500,000? Admiral Moffett. We will have to look that up. Mr. Kelley. Your suggestion is to cut that out?

Commander Griffin. No, sir. We have inspection offices in the eld. We have charge of the Philadelphia Navy Yard. We have great many charges, none of them great, which do not appear in ese items. Any work we have done at a navy yard for aviation e have to pay for. It is not great at any one yard. If you would ke that \$150,000 and put it for Lakehurst, you would have the gures exactly right.

Mr. Kelley. Just make this \$150,000 instead of \$498,000?

Commander Griffin. Provided you do not cut Lakehurst. If you a not take the \$150,000 off of Lakehurst you can take the \$150,000 f of miscellaneous.

Admiral Morrett. Leave Lakehurst as it was and we will give on more detail; we will give you exactly what we can do, and take is \$150,000 off of the miscellaneous.

Mr. Kelley. Suppose we should take off this \$618,100 off of the

tal: how would that be?

Commander Griffin. Then we would have \$300,000 less than it tually cost in 1921. We are using a larger amount of spare marials from the war than next year will be available for that pur-

Mr. Kelley. What are the items entering into this miscellaneous? Commander Griffin. Repairs and overhaul, cost of inspection

ices, and unforeseen things that come up.

Mr. Kelley. You have not any idea that you can get money on e floor on such a statement? You have gone into little items of .000 and \$50,000, and then you come along with one grand total

of \$500,000 and call it "miscellaneous." I do not believe that v could ever get money that way.

Commander Griffin, I appreciate the weakness of it.

Mr. Kelley. While the House, I believe, is very friendly to at tion, still they would want to know where the money was going

Admiral Moffett. We can take that and distribute it. take off \$150,000, and then we might cut miscellaneous down \$100,000 and distribute it somewhere else.

Mr. Kelley. What we would like to have you do is to spread! \$498,000 over the items which gave you information enough to me the total, in the first place.

Admiral Moffert. We will do that.

Details of estimates for item "Miscellancous."

(a) Maintenance, repair, and operation of aircraft on Langley	\$173
(b) Maintenance and repair of airplane handling facilities on Langle	<i>y</i> 50,
(c) Repairs necessitated by storms, fires, floods, etc	1.00
(d) Work for Bureau of Aeronautics performed at navy yards	_ 74
(e) Cost of aeronautic work incidental to cooperation with other	r
bureaus and other departments	
Total	496

Secretary Denby, I should like to point out in connection w all these items that the department itself has already made t rific cuts under the demand for economy through the Bud officer-we cut to the bone in many instances. Now, we are dr ing blood. It is hard to reconcile.

Admiral Moffert. We will go over all of the data and expl eache item just as fast as we can. Under new construction have only asked for \$500,000. We put that in: we did not go details.

MAINTENANCE, OPERATION, AND REPAIR OF AIRCRAFT, ETC.

Mr. Kelley. For maintenance, operation, and repair of airc testing laboratories, and overhaul plants, you want \$6,618,100! Admiral Moffett. Yes, sir.

EXPERIMENT AND DEVELOPMENT OF WOODEN PARTS, WINGS, ETC.

Mr. Kelley. For continuing experiments and development w of all types of aircraft—you will probably drop that out?

Admiral Moffert. I hope not. That is the most important on

Mr. Kelley. How much is it?

Admiral Moffert. \$1,116,950. That is less than it was before Mr. Kelley. How did you arrive at that figure?

Admiral Moffert, Under "Structural cognizance, \$560,000."

Mr. Kelley. What do you mean by that?

Admiral Moffert. I mean the development of the wooden part the wings. That used to be under another bureau-now under material division. Commander Land is the head of the mater division. It is the construction of the planes, except the engines

Mr. Kelley. This will be mostly for the payment of employe Admiral Moffett. No. sir; there is some contract work.

Mr. Kelley. That is mostly a question of labor.

Admiral Moffert. This is for the experimental end of the new anes. We are trying not to go into production at the factory.

Mr. Kelley. It seems to me that you ought to be able to tell us how any people are working on this and what pay they are getting, so at we can tell how this estimate is made up.

Admiral Moffett. We can do that.

Mr. Kelley. And how much of the \$560,000?

Commander Land. It is impossible to tell that; we do not know rselves what we are going to do. You can not pin that down to absolute estimate at this time.

Admiral Moffett. I have a note here:

Structural development: Continue development and research in metal conuction: duralumin and special steels and their fabrication; improved types launching arresting and floatation gear; aerodynamic improvements, such slotted wings, variable proofing of aircraft; synthetic substitutes for goldater's skin and other special materials; improved aircraft instruments, iniding servo motors, speed indicators, tensionmeters, turn indicators, oxygen paratus, wind tunnel and model basin experiments; wood technology; exrimental types of airplanes that show promise, including ship, torpedo, school, d photographic types; gliders; improved methods of construction for both a vier-than-air and lighter-than-air craft.

Mr. Kelley. You are reading various sorts of activities that .11 be paid for out of this fund?

Admiral Moffett. Yes, sir.

Mr. Kelley. The amount here seems to be quite exact, \$1,116,950. looks as though it were not a mere offhand estimate, or you would ve made it \$1,117,000 in round numbers, or perhaps \$1,250,000? Admiral Moffett. Yes, sir.

Mr. Kelley. You must have had some details?

Admiral Moffett. We cut a percentage off of each item. Our st estimate was \$21,500,000. Then we cut \$4,500,000 and put it \$17,000,000. We took a percentage off those items that we condered the least important. We had a conference about that. We t off here and there. We took off where we could get along best. Mr. Kelley. Anyway, you would consider the number of men to

employed?

Commander Griffin. Not the men. That would be the least cost. or instance. Doctor Moore would be allowed money to carry on periments for us. The number of men we do not know. We mply know the total cost.

Commander Land. I can give you the men at the aircraft factory, It that would not be useful information to the committee. There is octor Moore, and we have spent a lot of money with Doctor Stratton

the Bureau of Standards.

NUMBER OF MEN TO BE EMPLOYED IN EXPERIMENTAL WORK.

Mr. Kelley. It seems to me if I were doing this I would know ow many men would be working on the experimental work the ming year.

Commander Land. But how about the work of the outside con-

actors?

Mr. Kelley. If you let a certain award to an outside contractor, would be based on the amount of material and labor used? Commander Land. Yes, sir.

Mr. Kelley. How many men have you working on experimention, or do they work partly on your work and partly on their wo

Commander Land. That is exactly what they do.

Mr. Kelley. You do not know how they divide it up? Commander Land. We can divide it up for any day.

Mr. Kelley. I think that Congress will be generous with you this item of experimentation, because there is a lot of sense in it to develop these new types.

Admiral Moffert. We will give you more detail.

Mr. Kelley. If you can give us any information which will useful as to how many people will be employed on this experiment work, or the average of how many, we shall be obliged.

Admiral Morrerr. We will try to get some more details.

Note.—Between 200 and 300 men are engaged on experimental work. I work is carried on at the naval aircraft factory and in the Washington N Yard. Experimental work is also carried on at the works of various court tors, in the Bureau of Mines, in the Bureau of Standards, in the Forest Proba Laboratory, at McCook Field, Dayton.

COOPERATION WITH ARMY IN TESTING AND EXPERIMENTAL WORK.

Mr. Kelley. I should like to ask in this connection, for the p pose of the record, what the relation is between the Army and I Navy in regard to this experimental and research work which is ing done. We do not want to duplicate.

Admiral Moffett. No. For instance, at their station at Day they have a place for testing propellers. We have not any such place for testing propellers. They also test some of engines out there.

Mr. Kelley. Will any work be done in the new laboratory for ye

Admiral Moffett. The new naval laboratory?

Mr. Kelley. Yes, sir.

Admiral Moffett. There is some talk of moving the radio fr Anacostia into that place.

PERSONAL SERVICES—SALARY AND WAGES.

Mr. Kelley. For personal services: For clerical, inspection, dring, and messenger forces for new construction at stations under cognizance of the Bureau of Yards and Docks, you have \$275) That is the first item we talked about?

Admiral Moffett. Yes, sir.

Mr. Kelley. How much are you asking for this year?

Admiral Moffett. \$790,000.

Mr. Kelley. That is due to the fact that all of these clerks, instors, messengers, and drafting people heretofore have been carried other rolls?

Admiral Moffert. Yes, sir; that is right.

Mr. Kelley. It is not due to an increase of the force?

Admiral Moffett. That is right, sir.

Commander Griffin. The present roll is \$775.839.36.

Mr. Kelley. What I said a while ago is correct, that that resents the expenditures of the Bureau of Aeronautics as it is or ized at the present time, based upon the expenses which hereto have been scattered over other departments?

Commander Griffin. Yes, sir.

Admiral Moffett. We have asked for \$15,000 additional to give us ittle leeway.

Mr. Kelley. Is that what it costs you this year?

Commander Griffin. Yes, sir; as of March 1.

Mr. Kelley. That is the amount you are asking for next year, exot the \$15,000?

Commander Griffin. Yes, sir.

Mr. Kelley. You will have, in round numbers, \$790,000 for this roose next year!

Commander Griffin. Yes, sir. The provision is that those empyees shall not exceed \$790,000. It comes out of the \$17,000,000.

CONSTRUCTION, REPAIR, AND IMPROVEMENT OF STATIONS.

Mr. Kelley. You are not asking anything this year for new conuction of buildings and improvements at air stations?

Admiral Moffett. We are asking under miscellaneous for \$500,000, it you said something about whether that would go through or not. Mr. Kelley. We do not want to put up any new buildings at stances. If this is for repairs, we can consider it, but if it is for new tildings, we will not waste any time on it.

Admiral Moffett. We want it for repairs and replacements.

Mr. Kelley. If you want \$500,000 for repairs at Coco Solo, Hampn Roads. Lakehurst. Pearl Harbor, and at the other places, we will naider it, but we can not consider anything for new construction.

Commander Griffin. The \$500,000 requested will be required for ntingent new construction for replacement of existing temporary akeshifts. When the condition of existing temporary construction comes such that repairs are no longer feasible new construction is cessary for replacements. A few such items will use the entire 100,000.

Mr. Kelley. You have an item for the maintenance and operation air stations, aircraft factory, helium plant, etc. That is being ken care of already.

Admiral Moffett. You could put that under maintenance.

Secretary Denby. Some months ago, and before the 4th of last larch, the hangar at Anacostia burned. We had the money to reace it, but there was some question as to the title to the land. We ould not put a cent on anything that did not belong to us. Now, understand that the ground belongs to the Army, and the Army ill give title to the ground, or to the amount of ground necessary, and when that is done. I think we should rebuild the hangar. We re using that station all the time.

Mr. Kelley. Of course, if the title is in the Government, the Presient can keep you out of trouble on account of it. How much will

Secretary Denby, \$50,000; but we have the money with which to it.

CONSTRUCTION OF CATAPULTS.

Admiral Moffett. We have an estimate for catapults.

Mr. Kelley. What about the catapults?

Admiral Moffett. For that we have asked a separate item of 175,000, under subhead 3.

Mr. Kelley. The item is for construction incident to flying, stowing, releasing, or securing aircraft, 19 catapults, at \$25,000, \$475,000:

What is that construction?

Admiral Moffett. A few months ago we procured one catapult for experimental purposes for planes that weighed about 3.500 pounds. It was successful, and we started in and placed under contract six catapults able to launch planes of 6,000 pounds weight. They will launch the heavier planes, and then we will build some smaller ones for the destroyers. This estimate for 19 catapults was gotten up some time ago, and we will really need more than that. The unit price is \$25,000, and I think we can get more than 19 for the amount we have estimated. We will have finished this year 9, and this will be 19 more. We need more than that, and we think we can get more than that, because some will be large and some will be small. When that estimate was gotten up we did not know as much about it as we do now.

Mr. Kelley. You are going to construct nine out of this year's

funds?

Admiral Moffett. Yes, sir.

Mr. Kelley. And you want 19 more out of this proposed appro-

priation?

Admiral Moffett. No, sir; we want more than that. This estimate for 19 was gotten up some time ago, and the program we have now calls for more.

Mr. Kelley. Why do you not stick to the battleships this year!

Admiral Moffert. That would be 18, and we need some for drill purposes. We must have one at Pensacola, one at San Diego, and one at Hampton Roads. We ought to have catapults of different types I do not think there is any more important item in the bill than this one for catapults. We have got to build some smaller ones and some heavier ones.

Mr. Kelley. How many do you want for the battleships? Admiral Moffert. We will require 18 for the battleships.

Mr. Kelley. What will they cost?

Admiral Morrett. We put in here 19 catapults. These catapults are necessary to equip 10 first-line ships and 8 light cruisers, at a unit cost of \$25,000. One additional catapult is required for training purposes.

Mr. Kelley, How much will that amount to in money?

Admiral Moffett. Nineteen catapults, at \$25,000 each, would amount to a total of \$475,000.

Mr. Kelley. How many battleships are rigged up with them? Admiral Moffert. We will have to get more than we have askel for.

Mr. Kelley. You are asking \$475,000 in this estimate for cata-

Admiral Morrett. As a matter of fact, we will really need 52.

Mr. Kelley, At \$25,000 apiece?

Admiral Moffett. No, sir: I think that is what we should get. This estimate was made some time ago, and we could not touch it.

Mr. Kelley. Can you tell me how many battleships you want to equip with catapults and what the cost will be?

Admiral Moffert. Eighteen battleships.

Mr. Kelley. How much apiece?

Admiral Moffert. \$25,000.

Mr. Kelley. That takes all of your money?

Admiral Moffett. Yes, sir.

Mr. Kelley. That is as far as you can go, then?

Admiral Moffett. This estimate was put in some time ago, and t was sent down by the Bureau of the Budget.

Mr. Kelley. We can not go above that.

Admiral Moffert. We do not ask any more.

Mr. Kelley. That is what you want to do with it?

Admiral Moffett. Yes, sir.

Mr. Kelley. You want 18 catapaults at \$25,000 each?

Admiral Morrerr. We want 19 catapaults. We will use one for mining purposes and 18 for the battleships, making 19 altogether. Mr. Kelley. That will equip all the battleships and you will have

ne for training purposes.

Admiral Moffett. Yes, sir.

Mr. Kelley. I thought you would fix up nine of the battleships

tween now and the 1st of July?

Admiral Moffert. In my program we have 18. We want to put em on the battleships, and we want to put them on many more ips. I am trying to squeeze the funds out of other items.

Mr. Kelley. I am asking you how you would divide up this

:75,000?

Admiral Mofferr. Yes, sir.

Mr. Kelley. Now, you say you want 19 catapaults, at \$25,000 each, Ld you will distribute them among the ships as you see fit.

Admiral Moffett. Yes, sir.

Mr. Kelley. You have already provided for ten battleships from unds outside of this appropriation?

Admiral Moffett. Yes, sir.

Mr. Kelley. That will leave you to supply eight catapults for .e rest of the battleships?

Admiral Moffett. Yes, sir.

Mr. Kelley. Leaving eight catapults for destroyers, if you want · put them on destroyers, or for cruisers or other ships?

Admiral Moffett. Yes, sir.

Mr. Kelley. Is there anything else?

Admiral Moffett. We think we need for aviation affoat and thore 5.262 men next year.

Mr. Kelley. The Bureau of Navigation has put in a request for ie men.

DRAFTSMEN AND TECHNICAL SERVICES.

Mr. Kelley. The next item is, "The services of draftsmen and ich other technical services as the Secretary of the Navy may deem ecessary may be employed only in the Bureau of Aeronautics to rry into effect the appropriation 'Aviation, Navy,' to be paid from e appropriation, 'Aviation, Navy': Provided, that the expendires on this account for the fiscal year 1923 shall not exceed 35,479.60. A statement of the persons employed hereunder, their

duties, and the compensation paid to each shall be made to Congress each year in the annual estimates." What about that?

Commander Griffin. We recommend that that amount be changed

to \$74.410. That is covered in that letter.

Mr. Kelley. This is what the Budget officer has sent in.

Commander Griffin. Yes, sir.

Mr. Kelley. We can not go above that.

Commander Griffin. The last paragraph of the letter says Mr. Kelley (interposing). Is that the Budget officer's letter! Commander Griffix. I do not know.

The Chairman. The Budget law provides that nobody is permitted to send anything in the way of estimates up here except through the Bureau of the Budget.

Commander Griffin. The Budget officer has not made any change

in this.

Mr. Kelley. Tell us what you want to do here.

Admiral Moffett. We are and have been hampered in the drafting force more than anything else. It stops everything. limited by law in the matter of draftsmen, and it means that if we want to get out an experimental type of plane, a great deal of time's lost. At the present time it takes a year to get the plans for such plane out, and the only reason we have not been able to get them of more quickly is because we have not the draftsmen to work on the plans.

Mr. Kelley. Admiral Taylor has draftsmen to spare.

Admiral Moffert. We are getting some from him. He is lending some draftsmen to us, but he will not be paying for them after the 1st of July, and we want to pay for them.

Mr. Kelley. This is to be charged back to the \$790,000 that we

have at another place, is it not? Admiral Moffett. Yes, sir.

Mr. Kelley. This is a limitation?

Admiral Moffett. Yes, sir. If we could get the draftsmen. could get our plans out in three months instead of having to will a vear.

STATEMENT SHOWING NUMBER AND SALARIES OF ALL CIVILIAN EMPLOYEES

Mr. Kelley. I wish you would put in the record a full list of you employees with the rate of pay for each one. You have a force draftsmen now in your bureau, and I want a list of the number the rate of pay of each one.

Admiral Moffett. I will do so. (See list below.)

Mr. Kelley. The idea here is that you want other bureaus to . sign technical forces to you?

Admiral Moffett. Yes, sir.

Mr. Kelley. I want you to furnish a list of all those position with the salary attached to each one of them.

Admiral Moffett. We will supply that for the record.

Mr. Kelley. Also put in the record a statement showing where got them, or from what bureau, and the number from each bures Admiral Moffett. I will do so.

Civilian employees, Bureau of Aeronautics.

1	Assignment.	Pay (per day).	Roll.	Total.	Total per annum.
П					
	Draftsman	\$5, 60	Engineering	1000	45.000
	Technical assistant	10. 80	do	\$16.40	\$5, 133, 20
	Aeronautical engineer.	7.60	Construction and Repair	1	
	Draftsman	4, 48	or a company of the c		
	Aeronautical engineer.	9. 20	do		
	Draftsman	10.00		100	
	Draftsman	5. 60	do		
	Chief draftsman	12.00	do		
	Oreftemen	4. 80 8, 40	do		
	Asst. mat. engineer Draftsman. Aeronautical engineer.	8,00	do		
	Aretonatureal engineer. Draftsman. Asst. mat. eng. Draftsman. do. do.	8,00	do		
	Asst. mat. eng	7. 20	do		
-	Draftsman	8.00	do		
	do	6, 40	do	184.64	57,792.32
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	do	6, 00	do		
1	Technical assistant	6, 40	do		
1	do	6. 80 13. 20	do		
- 1	Aeronautical engineer.	13, 20	do		
	Assistant aeronautical	6, 80	do		
1	inspector. Aeronautical engineer.	0.30	4-		
-	Aeronautical engineer.	8.40	Yards and Docks	0.00	9 (0) 00
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Civil Employees, Bureau of Aeronautics—Continued.

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Name.	Assignment.	Pay (per day).		Total.	Total per annum.
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Summers, Z	('lerkdo		Yards and Docksdo		\$2,186.0
Little, J. B	Stenographer Clerk Stenographer	1,200	Supplies and Accountsdodo	3, 900,00	3, 4M, 4
Total clerical roll.		j			52,731.4
Total technical roll.		·		•••••	65, 994.3
Grand total					115.5%.E
					\$75,332.E
Yards and Docks tee Yards and Docks ele	chnical roll.			3, 004, 30 2, 100, 00	5,16L#
Navigation clerical r	oll			2,600,00	12.054.0 2.004.0 3.004
Grand total	• • • • • • • • • • • • • • • • • • • •			-	115,60.22

PROVISION FOR MAKING APPROPRIATIONS TRANSFERABLE.

Mr. Kelley. Now, referring to the provision making all of your appropriations in one sum, can not that be abandoned now!

Admiral Moffett. I would rather not do it. Some items will run out, and if the appropriation for maintenance ran out I do not know what we would do. We move the funds around, and I think we can move them where they will do the most good.

Mr. Kelley. We have adjusted this according to the best judge ment you have as to what is required for the various services. and we do not like to carry this provision making all of the appropriation one sum unless there is some particular and special reason for it

Admiral Moffert. I can see that, but I would rather you would put that off until next year. We had great difficulty in making up these estimates last September. For instance, the estimate for the catapults is not what I would have it now.

Mr. Kelley. When did your bureau come into existence?

Admiral Moffert. On the 1st of September, and while we were

trying to get things together, we had to make up these estimates.

Mr. Kelley. Your excuse for having this provision making all the appropriations one fund is the fact that you have not been at the head of the bureau except for a short time and that the bureau been in existence only for a few months. That being the case you do not feel quite as certain about the various sums as you would be if you had a full year's experience with it!

Admiral Moffert. That is true, and next year we will be willing to do that.

Mr. Kelley. There will be a lot of material that vou could was in connection with the aviation activities that was intended for the ships that will be scrapped. Could you not use a lot of the material

tended for the ships that are to be scrapped in making repairs to

igines and that sort of thing?

Admiral Moffert. I do not think so. I do not know of anything ow that we could use. We do not make any engines ourselves, but e buy our engines.

Mr. Kelley. But you repair them.

Admiral Moffert. Yes, sir. I think that the Bureau of Engisering and the Bureau of Construction and Repair would save l of that material and use it. I do not see where we could use it.

Mr. Kelley. You have a good many hundreds of millions of dolrs worth of stuff on hand, have you not?

Admiral Moffett. We could use some ships that the Shipping oard has, and we could use, and will use, two of the battle cruisers or airplane carriers. I am sorry that we can not use more than two. Mr. Kelley. What about the situation so far as wages are conrned, or how much will you save from a reduction in wages next ar from those you are paying the present year?

Admiral Moffett. We have not provided anything for that.

Mr. Kelley. Are you going on paying the same high wages that ou are paying this year?
Admiral Moffert. Do you mean in the bureau here?

Mr. Kelley. No.

Admiral Moffett. That is all fixed by the Labor Board. That is

one by the navy yards.

Mr. Kelley. In making your estimates, you have not made any lowance at all on account of a reduction or a readjustment of wages low the wages paid during the current year?

Admiral Moffett. I can not say that we have.

Mr. Kelley. You have not made any reduction in anticipation of reduction in the price of material next year?

Admiral Moffert. I can not tell you that right now. The estimates

ere made up on the basis of past experience.

Mr. Kelley. What is the fact about the price of material as comired with last year, so far as the materials you use in making reirs are concerned?

Admiral Moffett. The estimates we put in were based upon the

ices we are paying for planes now.

Mr. Kelley. Material is coming down all the time, is it not? Admiral Moffett. I think it might come down some more.

Mr. Kelley. Who buys your material?

Admiral Moffett. The material we have at the aircraft factory is aght through the supply officer at the yard. Most of the material buy is bought on the outside from contractors. We try to buy ines on the outside as much as we can.

Mr. Kelley. Is there not a reduction in the cost of those materials? Admiral Morrett. In the aircraft factory we are using wood pro-

red during the war or spruce that we had on hand. I think we ve a great deal of it still.

Commander Griffin. They have been using that material, and it running out.

Mr. Kelley. Is the spruce timber you had on hand running out?

Commander Griffin. Yes, sir.

Mr. Kelley. I thought you bought up all the spruce on the Pacific

Commander Griffin. I do not know about that, but I know it is running out. We had an enormous store of raw materials that were available for use, but they have dropped down to a very low point.

Mr. Kelley. There must be a tremendous amount of material of all kinds that the Navy Department will have at its disposal as a result of scrapping those battleships. They will have a great deal of material that has not been fabricated.

Commander Griffin. Those things are shifted around, and we are apt not to gain very much from that. We must put aside what is called reserve material, and that reduces the appropriation. Last year we had to procure material in addition to all these surplus stocks, and whatever we get in the way of material from the Army in 1923 will be charged for. We must make a deduction from our appropriation on account of any material we get from the Army. That money goes back into the Treasury.

Admiral Moffert. I do not think there is much material that the

have that would be of any benefit to us.

Mr. Kelley. How much material did you have on hand in connection with aviation at the end of the war?

Admiral Moffett. I think we had about \$30,000,000 worth.

Mr. Kelley. No more than that?

Admiral Moffett. I can find out the exact amount.

Mr. Kelley. We spent up into the billions for that purpose, and we did not use any of it. We never did get any of those plans abroad, did we?

Admiral Moffert. Yes, sir: we got planes abroad.

Commander Griffin. Those planes are seven years old, and we

have used those materials pretty extensively.

Mr. Kelley. With an appropriation of \$15,000,000, you have not used up those materials if you had any considerable quantity on hand.

Commander Griffin. Under the appropriation of \$15,000,000 we have been using supplies that we had on hand, but in 1923 we will have a very much smaller amount of supplies to draw from. We will have to pay money for what we use.

TOTAL APPROPRIATIONS AND EXPENDITURE FOR AIRCRAFT.

The Chairman. \$1,450,000,000 was appropriated for aircraft. Commander Griffin. We have the total right here.

Mr. Kelley. Not all of that was for the Navy.

The CHAIRMAN. No.

Commander Griffin. We have the total right here. Of the most allotted, we returned to the Treasury up to 1919, \$117,912,272; out of a total appropriation since aviation started in the Navy of three hundred and forty-four million and some thousand dollars.

Mr. Kelley. The bulk of the appropriations having been make

for the Army?

Commander Griffin. Yes; so that since aviation started in the Navy something like \$250,000,000, in round numbers, has been specified.

Admiral Mofferr. We have \$2,500,000 that we will have to to in, or which we will turn in this year, that has accumulated 1920 and in 1921; I think we could spend it under the law but we

re not going to do so. However, we could use it very advantageusly, if it were made a continuing appropriation—the \$2,400,000.

Mr. Kelley. But you have no appropriations which continue unler the law, other than those you have indicated for next year's use? Admiral Moffert. No; that is all.

Mr. Kelley. You have no sources for your bureau except this ap-

ropriation?

Admiral Moffert. That is all. As to the \$2,400,000 from the old ppropriation, I do not believe Congress meant to reappropriate it, s it went through with the act creating the Bureau of Aeronautics; als act said all unexpended balances would be turned over to the tureau of Aeronautics, and that amounted to nearly \$3,000,000.

Mr. Kelley. But that will revert to the Treasury? Admiral Moffert. On the 1st of July; yes, sir.

Thursday, March 23, 1922.

BUREAU OF SUPPLIES AND ACCOUNTS.

PAY OF THE NAVY.

TATEMENTS OF ADMIRAL DAVID POTTER, ADMIRAL THOMAS WASHINGTON, CAPT. T. W. LEUTZE, LIEUT. COMMANDER E. A. COBEY, MR. CLYDE REED, AND MR. R. D. VINING.

Mr. Kelley. We have with us this morning Admiral Potter, Chief of the Bureau of Supplies and Accounts, and his assistants.

PAY AND ALLOWANCES OF COMMISSIONED OFFICERS.

We will take up the item "Pay of the Navy," on page 83 of the oill, "Pay and allowances prescribed by law of officers on sea duty and other duty and officers on waiting orders." How much are you estimating for, Admiral?

Admiral Potter. The figures I will give are the amounts required

n the absence of further legislation in regard to Navy pay.

Mr. Kelley. That is to say, we are taking the figures under the aw as it will stand on the 1st of July, if there is no intervening legislation!

Admiral Potter. Yes. sir.

Total pay and allowances of officers on sea duty and other duty and officers on waiting orders, \$26,951,883. That does not include the retired list.

Mr. Kelley. Have you that pay in a division?

Admiral Potter. Yes, sir.

Four thousand two hundred and ten commissioned officers on sea luty, total pay, \$12,461,997; 205 commissioned warrant officers on a duty, \$538,351; 712 warrant officers on sea duty, \$1,507,375; 2,351 commissioned officers on shore duty, \$8,051,850; 300 commissioned arrant officers on shore duty, \$747,000; 241 warrant officers on lore duty, \$449,125. I have the midshipmen—2,400 midshipmen,

\$1,872,000. Additional pay of 50 per cent for 425 qualified avi **\$557,745.** Additional pay of 35 per cent for 40 student avi \$36,960.

COMMUTATION FOR HEAT AND LIGHT FOR OFFICERS.

Commissioned officers on shore duty. \$656,040. Commissi warrant officers on shore duty, \$44,640. Warrant officers on: duty, \$28,800. That is the total for commutation for light and \$729,480.

Perhaps I had better put in the number of rooms. I have

Commissioned officers on shore duty, 10,934 rooms. Commissioned warrant officers on shore duty, 744 rooms. Warrant officers on s duty. 480 rooms.

Mr. Kelley. That is a total of \$26,951,883?

Admiral Potter. Yes, sir.

Mr. Kelley. What would that total be if the existing law i continued?

Admiral Potter. \$32,508,423.

NUMBER OF COMMISSIONED OFFICERS BY GRADES.

Mr. Kelley. I wish you would detail the commissioned office giving the number in each grade that you figured on?

Admiral Potter. Yes, sir; in the ensign grade, 1,055 persons:

their total pay in that grade, \$1,989,323.

Mr. Kelley. That includes how many to be taken in from academy this year?

Mr. Reed. Five hundred and thirty-five.

Mr. Kelley. You take in all of them?

Mr. Reed. Yes, sir.

Admiral Potter. There are various lengths of services. I group of these fellows has various lengths of service. I do not k whether that is interesting to you.

Mr. Kelley. What is the unit of pay on the 535?

Mr. REED. That affects the distribution throughout the up ranks. I have a calculation on that which I will give you, show the exact amount.

Mr. Kelley. That is to say, if these are taken in there will different arrangement of all the grades?

Mr. Reed. Yes, sir.

Mr. Kelley. These 535 taken in would make more admirals. captains, more commanders, all the way down?

Mr. Reed. Yes. sir.

Mr. Kelley. Please go ahead and give it on the basis you star

and then on the basis of taking in only 200.

Admiral Potter. Lieutenants, junior grade, 1,016 persons i total pay of \$2,378,680; lieutenants, 2,702 persons at a total pay \$8,036,064: lieutenant commanders, 919 persons at a total pay \$3,708,080; commanders, 512 persons at a total pay of \$2,403. captains, 294 persons at a total pay of \$1,517,000; rear admirals the lower half, 28 persons at a total pay of \$178,800; rear admir upper half, 24 persons at a total pay of \$203,200; 4 chiefs of bur

at a total pay of \$32,000; vice admirals, 3 at a total pay of \$27,000; admirals, 3 at a total pay of \$30,000; and admiral, chief of naval operations, 1, \$10,000. That is the strength proper of the commissioned officers.

Mr. Kelley. That makes a total of how much for the commis-

sioned officers?

Admiral Potter. \$20,513,847.

Mr. Kelley. Exclusive of commissioned warrant officers?

Admiral Potter. Exclusive of commissioned warrant officers and warrant officers and exclusive of the midshipmen also.

COMPUTATION TO GRADUATES OF ACADEMY.

Mr. Kelley. What other computation have you made with refer-

ence to the graduates of the academy?

Mr. Reed. The computation that I made is on the basis of leaving 535. I can give you that figure. They have reported out a bill for 200 to be commissioned.

Mr. Kelley. On the basis of 200?

Mr. Reed. On the assumption that 200 of the graduates of the academy will be commissioned these figures for pay of officers should be reduced by the pay and allowances of 535, which would be distributed.

Mr. Kelley. That would change the number in all the other

grades?

Mr. Reed. Yes, sir.

Mr. Kelley. Please give us the number by grades on the basis of 200.

Mr. Reed. The reduction in numbers would be 3 rear admirals, 13 captains, 23 commanders, 47 lieutenant commanders, 109 lieutenants, and 140 lieutenants (junior grade) and ensigns. The reduction in the amount for pay and allowances under the first item as previously given would be \$1,057,897.

Mr. Kelley. And that would make the total pay of the commis-

sioned officers what?

Mr. Reed. \$19,455,950.

Mr. Kelley. Instead of the \$20,513.847 that you gave a moment ago?

Mr. Reed. Yes, sir.

Mr. Kelley. Have you the number in each of those grades at the

present time, without the class from the academy?

Mr. Reed. That number is shifting from day to day. If you wanted to make a comparison, the best thing to do would be to take the figures that were furnished the Naval Affairs Committee as of the 2d of January.

Mr. Kelley. You say the numbers you have given are the reductions. Do you mean by that the reduction in each grade below the number that would be there if we commissioned the entire class of

the academy?

Mr. Reed. Yes, sir.

Mr. Kelley. And not a reduction below the existing number in

:hose grades?

Mr. Reed. No, sir: it is a reduction below the figures we used in this estimate, which contemplated commissioning the entire class of the Naval Academy.

Mr. Kelley. I think, in order to be sure that this goes into the record, that you might insert at this point a table showing the number in each grade of officers, line and staff, on February 1, 1922.

Mr. Reed. I will get that from the Bureau of Navigation. Would the statement on the next page, which shows how we recapitulated this statement by corps and length of service, answer the purpose?

Mr. Kelley. I think that might help us in comprehending the situation, but for the record I am inclined to think it might not be helpful.

DISTRIBUTION OF OFFICERS OF CORPS.

Mr. Reed. Do you want it for each grade or distributed by corps! Mr. Kelley. Have it distributed by corps. On January 21, 1922, the Naval Affairs Committee was furnished with a list of the commissioned warrant officers in the Navy at that time, or as of January 2. I wish you would insert at this point that table, or one substantially like it, so that we may have a direct comparison.

Mr. Reed. There has been practically no change in the commissioned personnel since that time, but there has been an increase in the warrant officers. I think it would be better to give later figure

on the warrant officers.

Mr. Kelley. Let us have the most recent information you have.

Mr. Reed. We will supply that for the record.

Total actual number of officers on active list, line and staff, exclusive of commissioned warrant and warrant officers, February 1, 1922, distributed in the several grades and ranks, showing the additional numbers in each:

	Reg- ular num- ber.	Addi- tional num- ber.	Total.		Reg- ular num- ber.	Addi- tional num- ber.	Total.
Line:				Professors of mathemat-			i
Rear admirals	41	. 81	49	ics:			
Captains	163	13	176	Captains	3	1	į .
Commanders	285	30	315	Commanders	4	ĺ	1
Lieutenant com-				1			—
manders	570		570	Total	7	2	1
Lieutenants	1,323	1	1,324	il			
Lieutenants (junior			•	Chaplain Corps:			I
grade)	497	0	497	Captains	12	0	1
Ensigns	1,205	0	1, 205	Commanders	2	0	1
		:		Lieutenantcom-		ļ	1
Total	4,0%4	52	4, 136	manders	2	0	1 :
	—			Lieutenants	48	0	4
Medical Corps:	j			Lieutenants (junior		1	i .
Rear admirals	4 1	0	4	grade)	14	0	_ 19
Captains	33 j	1	34	Acting chaplains	9	0	1
Commanders	65	U	65	l			
Lieutonant com-				Total	87	0	j \$
manders		0	150	1			
Lieutenants	537	0 1	537	Supply Corps:	_		Ι.
Lieutenants (junior				Rear admirals	_3	0	
grade)	19	0	19	Captains	24	1	2
Acting assistant sur-	- 1		_	Commanders	49	0	4
geons	5	0	5			_	ہ ا
				manders	80	0	
Total	813	1	814	Lieutenants	254	1	251
Dament Clarence				Lieutenants (junior	100	اہ	
Dental Corps:	•			grade)	122	0	12
Lieutenant com-	26	0	26	Ensigns	80	0	7
manders	26 124	0	20 124	Total	612	2	- 4
Lieutenants	124	U	124	10181		- 1	
Lieutenants (junior	9	0 .	9 '	Construction Corner			
grade)	** .	v	y	Construction Corps: Rear admirals	. 1	1	
Total	159	0	1.59		,1	1	Ė
TOTAL			1.19	Captains Commanders	17 28	0	- 5
•			===	Communitees	28 ;	0	-

	Reg- ular num- ber.	Addi- tional num- ber.	Total.		Reg- ular num- ber.	Addi- tional num- ber.	Total.
onstruction Corps—Con. Lieutenant com-				Civil Engineer Corps—			
manders Lieutenants	10 128	0	10 128	Lieutenant com-	7	0	7
Lieutenants (junior		Ĭ		Lieutenants	49	ŏ	49
grade)	18	0	18	Lieutenants (junior grade)	28	0	28
Total	202	1	203	Total	105	2	107
Civil Engineer Corps:							107
Rear admirals	1	1	2	Total line	4,084	52	4, 136
Captains Commanders	5 15	0	6 15	Total staff	1,995 6,079	8 60	2,003 6,139
Commanders	15	,	13	Grand total	0,079	, au	0, 139

CHIEF WARRANT AND WARRANT OFFICERS.

	Line and staff.	Total.
Chief boatswains.		
Chief gunners Gunners		256 310
Chief machinists. Machinists.		278
Chief carpenters. Carpenters	56 71	127
Chief pharmacists Pharmacists	110 16	126
Chief pay clerks Pay clerks Acting pay clerks	148	277
Grand total	······	1,374

NUMBER, GRADE, AND SALARY OF COMMISSIONED WARRANT OFFICERS.

Mr. Kelley. We have covered the commissioned officers on the active list, and we will now take up the warrant officers.

Admiral POTTER. The commissioned warrant officers having the pay of lieutenants for 20 years' service number 29 persons, at a total compensation of \$99,792; the commissioned warrant officers having the pay of lieutenant, junior grade, 153 persons, at a pay of \$432,340; commissioned warrant officers having the pay of ensign, 323 persons, at a pay of \$753,219; making a total for commissioned warrant officers in pay of \$1,285,351.

Mr. Kelley. Now we will take up the warrant officers.

Admiral Potter. Warrant officers, 952 persons, with a pay of \$1.956.500.

NUMBER, CLASS, AND SALARY OF MIDSHIPMEN.

Mr. Kelley. Now, the midshipmen. Admiral POTTER. This is the 2,400 figure. Mr. Kelley. That includes the three classes? Admiral POTTER. Four classes.

Mr. Kelley. That includes what we are short and the incoming class next year?

Admiral Potter. Yes, sir. There are 2.400 midshipmen with a

pay of \$1,872,000.

Mr. Kelley. That makes a total, if you commission all the mid-shipmen, for the pay of officers on active duty——

Admiral Potter (interposing). A total of \$25.627.698.

Mr. Kelley. What would be the total if you commissioned 20 of them?

Mr. Reed. \$24,569,701.

PAY OF OFFICERS ON RETIRED LIST.

Mr. Kelley. The next is pay of officers on the retired list.

Admiral Potter. Seven hundred and ninety commissioned offices, unemployed, \$2,673,090; 152 commissioned warrant officers, unemployed, \$291,750; 93 warrant officers, \$150,000; making a total for pay of officers on the retired list, for 1.035 persons, \$3,114,840.

Mr. Kelley. Under the law an officer is supposed to receive threfourths of the pay of the rank or grade in which he retired!

Admiral Porrer. Yes, sir: unless there is some exceptional law that makes some exceptional rate.

Mr. REED. There are one or two men on the retired list drawing

furlough pay.

Mr. Kelley. Do any of these sums contemplate the employment of retired officers on the active list next year?

Admiral Potter. No. sir; it contemplates none assigned to active

duty.

Mr. Byrnes. Do you mean there will be none?

Admiral Potter. No, sir. Of course, the Secretary has the right with their permission, to assign them to any active duty, but they can not draw over the pay of a lieutenant commander.

Mr. Byrnes. If he does assign a retired officer to active duty—Admiral Potter (interposing). He can not draw over the pay of

a lieutenant commander on the active list. Mr. Byrnes. Does the law so provide?

Admiral Potter. Yes, sir; in time of peace.

Mr. Byrnes. You have no retired officers on the active list to-day!
Admiral Potter. There are very few. I saw the other day that
there were about seven or eight.

COMMUTATION OF QUARTERS FOR OFFICERS, GUNNERS, MACHINISTS, NAVAL CONSTRUCTORS, ETC.

Mr. Kelley. Commutation of quarters for officers, including bot-

swains, gunners, etc.

Admiral Potter. For commissioned officers on shore duty, 79° rooms, at a money value of \$1,149,408; commissioned warrant officer on shore duty, 744 rooms, at a money value of \$107,136; warrant officers on shore duty, 374 rooms, at a money value of \$53,856; making a total of money value, \$1,310,400.

Mr. Reed. I want to call attention to what might be considered a discrepancy between the number of rooms on which the computation of quarters is figured and the commutation for heat and light

n allowing commutation of quarters, we made a deduction for fficers on shore duty occupying Government quarters. However, in nat case they are entitled to their heat and light, which is charged ato the appropriation, and the cost runs about the same as the comnutation allowance. So that for convenience of calculation, we used ne full number of rooms to which all officers on shore duty would e entitled.

Mr. Kelley. What you say accounts for the difference between

0,934 and 7,982?

Mr. Reed. Yes, sir. There 52 warrant officers now occupying Govrnment quarters.

Mr. Kelley. If the provisions of the existing law were extended

July 1, how much would that make this appropriation?

Admiral Porter. That would make the total item, \$3,292,848, for ommutation of quarters. That would bring the noncommissioned fficers into the purview of allowance of quarters at sea.

Mr. Kelley. The additional sum required by reason of commu-

ation of quarters for officers at sea amounts to \$1,982,448.

Admiral Potter. Yes, sir

Mr. Kelley. If the present law were extended this amount would e \$3,292,848?

Admiral Potter. Yes, sir.

COMMUTATION OF QUARTERS, NURSES CORPS.

Mr. Kelley. The next item is for the Nurses Corps.

Admiral Potter. For commutation of quarters, Nurses Corps, the stimate is \$1,000. This estimate is based upon past experience. here are 433 persons in the Nurses Corps.

Mr. Reed. They receive commutation under certain circumstances.

Mr. Kelley. The amount is almost negligible?

Mr. Reed. Yes, sir; most of them have quarters. It varies from ear to year.

HIRE OF QUARTERS FOR OFFICERS SERVING WITH TROOPS.

Mr. Kelley. The next item is for hire of quarters for officers rving with troops where there are no public quarters.

Admiral Potter. That estimate is \$20,000.

Mr. Reed. Those are cases where the officers hire quarters because e vessel may become uninhabitable while undergoing repairs, parularly in a foreign port.

Admiral Potter. That happened in the case of the Scorpion at onstantinople, where they had to live on shore for a long time.

PAY OF RETIRED ENLISTED MEN.

Mr. Kelley. The next is pay of retired enlisted men. Admiral Potter. There are 653 persons, at a pay of \$678.566. Mr. Kelley. That is based on the current rate of expenditure? Admiral Porter. Yes, sir. We have a table showing the number persons in each grade and the actual pay.

PAY OF MEN REENLISTING WITH HONORABLE DISCHARGE.

Mr. Kelley. I do not believe that will be useful to us. item is for extra pay to men reenlisting with honorable discharge. Admiral Potter. That is \$3,772,000. I have the details of that

Mr. Kelley. Give us the details.

Mr. Reed. The honorable discharge gratuity received by enlisted men on reenlistment is limited both by period of prior service and by the term for which the reenlistment is made. At the present time the reenlistments are made only for a period of four years, and not for three years and two years, so that in preparing the estimate the Bureau of Navigation gave the distribution by prior service of the men who were expected to reenlist, based on two, three, and for

Mr. Kelley. In figuring the discharge gratuity, you based it on

the length of service in the expiring enlistments?

Mr. Reed. Yes, sir.

Mr. Kelley. That is to say, if a man served a two-year enlistment he would get a two-month gratuity: if he serves a three-vear enlisment he gets a three-month gratuity; and if he serves a four-year enlistment he gets a four-month gratuity?

Mr. Reed. Yes, sir.

Mr. Kelley. You have made this calculation upon that basis? Mr. Reed. Yes, sir. This is based on a total of 12,000 reenlistments. The Bureau of Navigation gave this distribution by grades and length of service, and the amount actually required for the payment of the gratuities would, of course, depend upon the number of years service of the men who reenlist.

Mr. Kelley. And the total is \$3,772,059?

Mr. Reed. Yes, sir. We dropped the \$59 in our estimates.

INTEREST OF DEPOSITS.

Admiral Potter. The next is interest on deposits, \$10,000. That is the estimated amount to be paid men for putting their money in what we call the ship's bank, on which they are allowed 4 per cent interest.

Mr. Kelley. That money goes into the Treasury?

Admiral Potter. Yes, sir.

PAY OF PETTY OFFICERS, SEAMEN, ETC.

Mr. Kelley. The next is pay of petty officers, seamen, landsmen apprentice seamen, etc., based on an enlisted force of 65,000.

Admiral Potter. The total of that is \$57,341,846.

Mr. Kelley. That would be under the present pay, and not according to the pay that will be in effect.

Admiral Potter. Under the other rate it would be \$51,832,351.

Mr. Kelley. On the basis of the present pay, that would be how

Admiral Potter, \$57,341,846.

Mr. Kelley. That is the full pay of the enlisted personnel? Admiral Potter. On the active list, on the basis of 65.000.

Mr. Kelley. And no special items for apprentice seamen are

Ided to that anywhere?

Mr. Reed. No, sir. There is an allowance included in there of 370,674 for additional pay to enlisted men on aviation duty. They re entitled to 50 per cent additional.

NUMBER AND GRADE OF PETTY OFFICERS AND ENLISTED MEN.

Mr. Kelley. Give the distribution of this \$51,832,351 by classes.

Mr. Reed. Chief petty officers, 6,762. I can not give you the soney on that without making a subtraction, but if you want the soney distribution, I will insert that in the record.

Mr. Kelley. The numbers will do.

Mr. Reed. Chief petty officers, 6,762; chief petty officers of the rst class, 10,493; chief petty officers of the second class, 9,057; hief petty officers of the third class, 5,889; firemen of the first class, 368; firemen of the second class, 2,327; firemen of the third class, 360; nonrated men of the first class, 11,512; nonrated men of the econd class, 10,388; cabin cooks and stewards, 235; wardroom cooks and stewards, 412; steerage cooks and stewards, 51; warrant officers' poks and stewards, 111; mess attendants of the first class, 814; ess attendants of the second class, 814; mess attendants of the third ass, 407, making a total of 65,000.

ADDITIONAL PAY FOR AVIATION.

Mr. Kelley. Do you want to make some allowance there to take

re of additional pay for aviation?

Mr. Reed. Yes, sir; for aviation. The 50 per cent additional for intion covers additional pay for the following: Chief petty offices, 340, \$288,252; petty officers, first class, 110, \$60,588; petty offices, second class, 40, \$18,144; petty officers, third class, 10, \$3,690, aking a total additional for aviation pay of \$370,674.

Mr. Kelley. And that should be added to the \$51,832,351?

Mr. Reed. No. sir: that is included in the \$51.832,351.

PAY OF PRISONERS.

Mr. Kelley. Pay of enlisted men undergoing sentence of courtartial.

Admiral Potter. Nine hundred and ten, at a total pay of \$520,520. Mr. Kelley. They get what pay when they are under sentence?

Mr. Reed. The amount of pay in the rating they hold is charged ainst the appropriation, although the men themselves only receive ch amount as the court-martial may allow them, and it averages a month. The average pay has been running about \$572, and for at reason we use that figure.

Mr. Kelley. That is about what the courts-martial have allowed

em to draw.

Mr. Reed. No; the men do not receive all of that, and none of em receive more than \$3 a month for their own benefit.

Admiral Potter. That becomes forfeited to the naval hospital nd.

Mr. Kelley. This is one of the sources for building up the naval hospital fund?

Admiral Potter. Yes, sir.

Mr. Kelley. And will the Secretary's new regulation make any

difference in this particular?

Mr. Reed. It will make a difference if the men are reduced in their ratings because the pay will go down. Of course, this is less than the actual number of prisoners at the present time, and I did not see any basis for reducing the average rate for next year.

DIFFICULTY OF REDUCING NUMBER OF CHIEF PETTY OFFICERS.

Mr. OLIVER. Right in that connection, Admiral Washington, suppose you establish seven ratings in the Navy, how long will a young man taken in as a recruit be required to serve before he is eligible

for promotion from one rating to another?

Admiral Washington. Under the present circumstances, and with the possible reduction of the Navy to 65,000, it would be an indefinite time, because we now have chief petty officers and petty officers, first and second classes, in excess. The numbers which have just been read off there are not what we have in the Navy: they are fictitious numbers of rated men based on 65,000 total enlisted force, but we have actually more than 94,000 men now in the Navy, and consequently those numbers read have no bearing on the actual existing Navy.

Mr. OLIVER. I think I said something to Captain Williams about that, and we are interested here because under a pending bill, which will probably come up very soon, you are reducing the pay of the new man coming in, and in view of the fact that the chance for his promotion is so slight, I am afraid you are going to seriously embarrass yourselves in securing suitable young men whom you would have reason to hope could qualify later for the higher ratings unless

you can offer a better inducement to them.

Admiral Washington. It might make it difficult if abnormal conditions continue. The recruiting service does not think that the slight reduction of pay alone will interfere with enlistments. In the numbers read off there, for instance, 6,700, as I recall, chief petty officers, are not what we have. In reality we have about 3,000 more than that, or perhaps 3,500 more, and apparently in this pay no provision is made for them. As you have estimated it there. I assume the 3,500 are not to be paid.

assume the 3,500 are not to be paid.

Mr. OLIVER. Mr. Kelley and I are very familiar with the trouble the Navy had prior to 1916 in maintaining even the 50,000, and we had to make an appropriation of funds in order to induce them to come in, and that has been one of the fears I have had in reference to reducing their pay, especially in view of this stagnation you

speak of.

Mr. Kelley. Where did you get this distribution?

Mr. Reed. It was furnished by the Bureau of Navigation.

Mr. Kelley. On the basis of 65,000 men?

Mr. Reed. Yes, sir.

Admiral Washington. That is what we would require in the wy of petty officers and others if the total force were limited to 65.000; but, understand, we have 94,000 in the Navy, and when we reduce to

5,000 the petty officers do not come down proportionately—the loss almost entirely in the lower grades. For instance, we can by ranting voluntary discharges almost get rid of every seaman, very seaman second class, and every seaman apprentice before any onsiderable number of chief petty officers would request their disharges. Now, in that 6,700 number we would have what we need or a rounded Navy of only 65,000, but on the 1st of January last re had just about, say, 10,500 chief petty officers, due to the war onditions, and as he read the numbers and pay off there I do not ssume provision is made for the pay of this extra 3,500 or more men rhom we now actually have in the rating of chief petty officer.

Mr. Kelley. I assume the Bureau of Supplies and Accounts made he pay table on the basis of information furnished them by you for

he distribution of 65,000 men.

Admiral Washington. Yes; but if we started with a new Navy bsolutely——

Mr. Kelley (interposing). But in starting with a new Navy I

uppose you took into consideration the new basis.

Admiral Washington. We supplied them with the number of setty officers we needed for a Navy of 65,000 men, but we have a vavy on our hands of 94.200.

Mr. Kelley. You will have to get rid of the difference, will you

ot?

Admiral Washington. Yes, sir; and that is the difficulty; but to can not get rid of them on the 1st day of July, and that is when his bill goes into effect. That has got to be done by a gradual rocess. Those men have a contract with the Navy through a four-par enlistment, and unless a law is passed by which we arbitrarily trow them out, I do not see how it is possible for us to come down the condition you suggest without reasonable time and doing justice to the enlisted men.

Mr. OLIVER. In other words, if we should fail to appropriate in ch a way as to take care of the binding contract which they have ith the Government, there would still exist an obligation against e Government for their pay?

Admiral Washington. Yes, sir.

Mr. Kelley. Do they not have a clause in all their enlistment intract that they enlist for four years unless sooner discharged?

Admiral Washington. I do not think that is in there, but we we always exercised that right; the department has always exersed the right of discharging a man from his enlistment, but the an himself has no right whatever to sever an enlistment from his le of the contract. If we sever without further consideration the distinct of 2,500 or 3,000 chief petty officers, it would mean the solute demoralization of the Navy.

Mr. OLIVER. In other words, they probably acquiesce in your

sertion of a right which, perhaps, does not legally exist?

Admiral Washington. They sometimes do not acquiesce in it; ey sometimes accept it, but with a great deal of objection, resentent, and regret.

Mr. Kelley. You do not intend to have all petty officers in the avy, do you?

Admiral Washington. No. sir; but the condition you are for on us puts us in a place where it is up to you to take the necessteps to get rid of these people or provide pay for them.

Mr. Kelley. If we furnish the money——

Admiral Washington (interposing). But you are not furning it.

Mr. Kelley (continuing). For 65,000 men, of course, you will

duce the Navy to 65,000 men in the proper manner.

Admiral Washington. There could be no proper manner; it is violation of the contract with the enlisted man.

Mr. Kelley. Why is it any more of a violation of a contract w

those at the top of the list than with those at the bottom!

Admiral Washington. Because those at the bottom of the list go out much more willingly and because they see very little he ahead, but a man who has been in the service, we will say, from to 25 or 30 years is not going to vacate the right he has secured those long periods instanter, and it is not human to expect him do it.

Mr. Oliver. In other words, many holding the position of perofficer will only have a short time to serve before they can be place

on the retired list!

Admiral Washington, Yes, sir.

Mr. OLIVER. And many were induced to return to the service invitation, as I understand, following this enabling legislation is was recently passed, with a view of serving for a short time at thereby being enabled to retire!

Admiral Washington, Yes, sir.

Mr. Kelley. How many retired enlisted men have we in the Nay

Admiral Washington. We have about 650, I should say.

Mr. Kelley. So they do not seem to avail themselves of that prolege very fast, if you only have 600 in the entire Navy for all the years.

Admiral Washington, No; because many of them do not desire

avail themselves of that privilege.

Mr. Kelley. Then your answer to Mr. Oliver would not carry we

much weight!

Admiral Washington, Yes, sir. The naval reserve, for which y provide nothing in your bill, is the job which they seek.

Mr. Kelley. We have not reached the naval reserve in the bill.

Admiral Washington. I understand there is not to be any.

Mr. Keiley. For the fleet reserve?

Admiral Washington, Yes.

Mr. Kelley. I do not think you are right about that.

Admiral Washington, I am very glad to hear it.

Mr. Kelley. That is where these men would go—into the fleet; serve.

Admiral Washington. That is where we are trying to get them go, seeing ahead as we do what the committee is evidently trying to do.

Mr. Kelley. If they serve for 16 years what pay would they!

when they go into the fleet reserve!

Admiral Washington. It would depend on the individual manshis rating, but I think the average is about \$780 or something I that. I have not the figures at hand.

Admiral Potter. About \$75 a month.

Mr. Kelley. Then they go out into private life with that annuity [\$75 a month?

Admiral Washington. But subject to call at all times.

Mr. Kelley. Do you think you will have much trouble in getting lese men to go under these circumstances?

Admiral Washington. We do have.

Mr. Kelley. Suppose no action is taken in the matter of increasg the pay beyond that of 1908, how will that change the situation? Admiral Washington. It would not change it materially, because ey have been in the Navy too long to willingly abandon the rights ev have gained and it has been their life work.

Mr. Kelley. My recollection is that we increased the pay of the

tty officers in the Navy on your recommendation.

Admiral Washington. Two years ago.

Mr. Kelley. Because they were all leaving you.

Admiral Washington, And I hope you will continue it.

Mr. Kelley, And now you say they will stay whether we cut that y or not.

Admiral Washington, Of course they will, Governor.

Mr. Kelley. Why did they not stay before?

Admiral Washington. The conditions outside—high cost of living r their families—were such that they could not then meet their eds on their navy pay; the men could get employment at greatly ther pay; and I told you time and time again that men would we the Navy and go to the Shipping Board and elsewhere, where e pay had doubled and trebled, and then come back to the Navy cause it was their life work, and they returned to follow and conme this naval service so that they could in the end gain the served or retired list.

Mr. Kelley. Then it is your contention now that we do not need continue this pay and that we can keep the men?

Admiral Washington, No. sir: I did not intimate anything like

Mr. Kelley, What did you say? Admiral Washington, I say that those men, the 65,000 you are oviding for in that bill, are totally inadequate for the condition which the Navy now finds itself, unless you are going to absolutely moralize the Navy and throw it into the discard. You can not me down instantly from 10,000 chief petty officers, violate the entract the Navy has with them, and still say you are doing the onest and square thing with them. It is not right. Those men we as much right in certain respects, morally, equitably, and almost gally-and they have been led to believe it-as the rest of us, and think it is the most serious blow that has even confronted the Navy. hat you are doing right now, trying to reduce to 65,000 men reurdless of all consideration of the moral, if not legal, rights of the en who would be summarily discharged. The word has gone out nong these men broadcast and it has had a most dreadful effect. nd that effect is going to increase all along and so long as this unrtainty as to action and kind of action remains unsettled.

Mr. Kelley, How about the officers of the Naval Reserve Force? Admiral Washington. I think the way in which they are being rated by this committee is pretty bad.

Mr. Kelley. You think we ought to keep them. too?

Admiral Washington. Which ones, sir?

Mr. Kelley. The officers in the Naval Reserve Force whom you

still have in the Navy on active duty.

Admiral Washington. I should like very much to keep them: they are doing good service, very good service, and some of them have been in the naval service for 25 years and yet, without any warning or anything prior to the action of the present committee in the present session, we propose to cut them out. Of course, there is an element of fair dealing which appeals to me very largely.

DEFICIENCY OF MONEY FOR TRANSPORTATION CAUSED BY THE REDUCTION OF IBE NAVY TO 65,000 MEN.

Mr. Kelley. Your idea is that we ought to keep all the men and

all the officers who are in the Navy now?

Admiral Washington. I am perfectly willing to consent to a reduction now that the war is over; but I do not think the reduction should be down to 65,000, making a reduction of 29,000.

Mr. Kelley. How many have you now?

Admiral Washington. We had yesterday by count 94,270. We have tried to act honestly and fairly with these men. Two and three years ago—of which you are well aware, because the matter was explained to you in great detail—we had great difficulty in enlisting men. We enlisted men in the lower ratings and we have had those men with us now two, three, and nearly four years. The two-year men will practically all go out this year and the next year, and that large number going out after short enlistment term periods has caused this heavy transportation expense, of which you were also fully aware two years ago and last year-the discharging and sending home of those men has caused that deficiency. That matter was fully explained; and, if you will recall, you agreed with me that I we to come to you in December last and it would be all right and you would grant the deficiency without hesitation as you were well aware it would necessarily be incurred.

Mr. Kelley. You got your deficiency, did you not? Admiral Washington. No, sir; the deficiency is doubtful; I men by doubtful that I do not think it will meet the conditions, because now we are confronted with a possibility of having only 65.000 mm. and it looks as though we must discharge a great number more Therefore these men under the law-

Mr. Kelley (interposing). That is true, and if we further reduce

the Navy you would be entitled to a further deficiency.

Admiral Washington. But some of these men are going out about of the prospective time, seeing the manner in which the committees acting toward them. So that a good many men are going out soon than they would have otherwise gone; whether there will be hundre or thousands I can not say, but some undoubtedly will.

Mr. Kelley. We will pay their fares home; you need not work

about that.

Admiral Washington. But you have not given us the money 🛍

which to pay their fares home.

Mr. Kelley. If they go home in larger numbers than you and pate you can come back.

Admiral Washington. That is the experience we had last year, and e had as much difficulty-

Mr. Kelley (interposing). Did we not give you all you asked? Admiral Washington. That I do not know; I was not present. Mr. Kelley. Well, we did, anyhow.

Admiral Washington. But we will need more than that in all

obability.

Mr. Kelley. That is due to something that is in prospect and noth-

g that has happened so far.

Admiral Washington. That is due to the action you are taking re and the notice that is going out in the newspapers as to the way ese men will be treated, after we have gone out into the country and ld them that if they made this their life work they would be taken re of, and that the Navy offered them an excellent future which, in eir class of life, was greatly better than they could ordinarily expect civil life.

Mr. Oliver. In order to have the record disclose exactly what did appen over two years ago, when this increase was provided for the etty officers as well as the enlisted personnel, you found at that time is condition confronting you: That employment was readily obined on the outside at very advantageous terms? Admiral Washington. Yes, sir.

Mr. OLIVER. And the prices paid were so greatly disproportionate those you were paying in the Navy that it was impossible to hold me very essential men in these grades?

Admiral Washington. Yes, sir.

Mr. OLIVER. Your statement to the committee was that it would not enecessary to meet those prices, but that if there was a reasonable inease you felt confident they would remain with you and that some ould return who had left?

Admiral Washington. Yes; that is correct, but coupled with that as the fact that we were holding out to them that the Navy was to ea life work for them.

Mr. OLIVER. I am going to bring that out. Then you gave as your ason why they would return, even though they were getting less in e Navy than they could at that time secure on the outside, the fact at they loved the Navy work? Admiral Washington. Yes, sir.

Mr. ()LIVER. That they felt it would be a career and they had assotions there, and that was the reason why you explained to us that reasonable increase would bring them back, even though it did not et the high prices paid on the outside?

Admiral Washington. That is correct.

Mr. Oliver. And my recollection is that so pressing was the need r action at that time that the committee, before the bill was rerted, authorized, I think, Mr. Kelley himself to make a statement rough the papers telling these men that the committee, no matter at its attitude might be with reference to the commissioned pernnel, would certainly provide some increase for these ratings?

Admiral Washington. That is my understanding.

Mr. OLIVER. That is my recollection about it.
Mr. Kelley. The fact that we did it bears that out, but we made it ective for a certain period of time.

Admiral Washington. Yes; that is correct.

Mr. Kelley. There was nothing in the act which we passed at that time which would carry the hope that this would be permanent.

Admiral Washington, I do not recollect about its permanency, except that I hoped you would make it permanent. But what I am driving at is the fact that in appropriating, as I presume you have in mind, for 6,700 chief petty officers you are not meeting the condtion, and I wish that to be distinctly understood.

POSSIBLE EFFECT ON NAVY BY REDUCTION TO 65,000 MEN.

Mr. Kelley. Your position is that the reduction in the higher grades would be too drastic!

Admiral Washington. It would practically amount to strikings

deathblow to the morale of the Navy.

Mr. Kelley. You are not saying that we are not providing the transportation and that kind of thing! That is not what you have reference to!

Admiral Washington. I said that I doubted whether the amount we asked for would be sufficient to meet the conditions if you reduced the Navy to anything like 65,000, because we have got to pay the expenses of these men, whose discharges your action would compa home whom we are not now anticipating will go until the expiration of their enlistments.

Mr. Kelley. You have been away and Captain Williams has appeared in your place!

Admiral Washington, Yes, sir.

Mr. Kelley. And he has furnished the figures with reference to

transportation and recruiting.

Admiral Washington, Yes, sir; and I am familiar with them. but they do not contemplate the effect of a reduction of the Navy to 65,000. That is not contemplated in them. You have from twenty to thirty thousand more men to provide for under that item of trans portation and recruiting if we reduce to 65,000, and the figures submitted by Captain Williams did not cover that.

Mr. Kelley. You are talking about the deficiency while I am talking about the figures Captain Williams presented to us the other

day.

Admiral Washington, Yes, sir.

Mr. Kelley. In which he pointed out that if this reduction were made there would be in this year, before the 1st of July, a further need for transportation amounting to some \$1,500,000, as I recolled Of course, if this reduction should be made to 65,000, it would be necessary to provide you with ample funds for transportation. there is no dispute between us on that proposition.

Admiral Washington. That is, figured on that \$1,500,000 best Mr. Kelley. The other thing, which was of more serious import was what you were saying as to the feasibility of making these redutions in the higher grades in accordance with the table which Mr.

Reed has figured on.

Admiral Washington. Yes; but the numbers Mr. Reed has then as I recall them, and I have a pretty clear recollection of them, so fictitious and hypothetical. They are not what we have, and to page own to those numbers read by him we have got to drastically fire lese 29,000 enlisted men we have above those numbers and violate ery moral obligation we entered into with them a year or so ago.

Mr. Kelley. If the Navy should be reduced to 65,000, your method f meeting that reduction would be not to disturb the higher ratigs very much but take the men out of the lower ratings?

Admiral Washington. Not at all.

Mr. Kelley. How would you do it?

Admiral Washington. We have got to work it out and do it as quitably as we can. We can not afford to chuck out 3,000 chief petty

ficers; the effect of that would be demoralizing.

Mr. Kelley. How would you do it? That is what I am getting at. Admiral Washington. I certainly would not do it in the manner which the Naval Affairs Committee is attempting to do it in the Il which they have just introduced in the House if it can be oided—that is, to kill all idea of continuous service in the Navy, would be the effect of that bill if passed.

Mr. Kelley. I have not read that bill, so I do not know what it is

Admiral Washington. That bill, if passed, will practically kill ≥ Navy.

Mr. Oliver. In brief, what does it provide?

Admiral Washington. The last proviso is that no man shall be owed to reenlist in the Navy who has had less than 12 years' serve, without special permission from the Secretary, but I suspect the cretary would be giving wholesale special permission in order to event what the bill seems to intend. The intent of Congress would there if that bill were passed, and that would appear as indicating at continuous-service men'were not desired.

Mr. Kelley. Of course, we are proceeding only on existing law; have no thought of any legislation, but if Congress decides at you are to have 65,000 men then it is not up to you to say nether that is right or wrong.

Admiral Washington. No; not at all.

Mr. Kelley. It is for you to get rid of the men down to that ımber.

Admiral Washington, Yes, sir.

Mr. Kelley. Now, how would you do that?

Admiral Washington. That is a thing we would have to give reful consideration to.

Mr. Kelley. Have you not done that, and up to this time have on not given it consideration?

Admiral Washington. Oh, yes; but somehow or other I can not ing myself to believe that Congress really has that in mind.

Mr. Kelley. Well, you had better get that in your head pretty

Admiral Washington. Well, it will come hard, and if it is done do not see anything short of your almost giving a deathblow to e fine morale which exists in the Navy.

Mr. Kelley. You think the only way we can keep the Navy up to keep 100,000 men in it?

Admiral Washington, I would like to see you carry 96,000.

Mr. Kelley. Otherwise we will destroy the Navy?

Admiral Washington. I did not say anything of that kind.

Mr. Kelley. I am trying to get your viewpoint.

Admiral Washington. My viewpoint is that if the Navy were made 96,000 we would get along very satisfactorily.

Mr. Kelley. But if Congress decides on 65,000 the Navy is de-

stroyed?

Admiral Washington. Oh, no: I did not say that. I said it would have a demoralizing effect, a very serious and severe one but I think the Navy can survive this blow, which I regard as the most serious one that has been directed at the Navy within my knowledge and possibly within the history of the Navy. But I think the Navy will survive it. The Navy can do a great many things to pull itself together and the struggle will be to do that and accomplish it and bring us back on a firm footing again. But I do feel that the effect on these chief petty officers and the others who would be so seriously served by a reduction to 65,000 is something to which we must give very, very careful consideration. You asked how it could be done.

DESIRE TO INDUCE CHIEF PETTY OFFICERS TO JOIN FLEET RESERVE.

One effort I should make would be to induce these men to go into the fleet reserve, where we have promised to send them; we have held that out to them, and in that way we can get some reduction very satisfactorily. Recently we have had as many as probably 1,000 to go into it.

Mr. Kelley. Have you worked out a table showing how long these

chief petty officers and others have served?

Admiral Washington. I have it, yes; but I do not have it with me. Mr. Reed. That is being compiled, but they told me a few day ago it would take more than two weeks to get it together because they did not have their cards punched in that way.

Mr. Kelley. Would the first step be to know how many men in

the petty officer class had served 12 years?

Admiral Washington. Sixteen.

Mr. Kelley. And then how many had served 20 years?

Admiral Washington. Yes, sir.

Mr. Kelley. If you knew that then you could tell how many might

be induced to go into the fleet reserve under the existing law.

Admiral Washington. That would merely be a guess, and it would not tell but approximately what the men will do. A great many of these sailormen are rather hard headed about leaving the Navy proper.

Mr. Kelley. You could probably tell approximately how many of

these men have had less than 12 years' service.

Admiral Washington. We can tell you very quickly how many have had various years of service, but we can not tell what is in the minds of those men and whether they would take advantage of the proposed law and transfer to the reserve.

Mr. Kelley. Mr. Reed said it would take two weeks to get the

data.

Admiral Washington. No; not at all. Mr. Reed. As to the pay ratings; yes, sir.

Admiral Washington. I can give you the numbers, and that is what I meant.

Mr. Byrnes. From your records, can you tell how many are ligible?

Admiral Washington. Yes; very readily.

Mr. Reed. They have the length of service and they can tell you now many have served a certain length of time, but they have not

hat number distributed by pay grades.

Mr. OLIVER. Could you supply for the record a list showing the number in the grades and, perhaps, taken the seven grades which ou hereafter hope to adopt and simply give the numbers in those even grades?

Admiral Washington. Yes, sir.

Mr. OLIVER. Giving the number of apprentices, and so on?

Admiral Washington. The number in each grade?

Mr. OLIVER. Yes.

istribution by pay grades of enlisted men in the United States Navy, Mar. 14, 1922, separated by the grades specified in the McKenzic bill as approximately as can be estimated.

	Regular Navy.	Insular force.		Regular Navy.	Insular force.
ade 1 (permanent) ade 1 (acting) ade 2	3, 112 12, 885	16	Grade 5Grade 6Grade 7	19, 260 23, 509 1, 890	123 145
Bade 3	11, 533 14, 107	25 93	Total	94,716	402

Admiral Washington. Yes, sir.

Mr. OLIVER. You could get that without very much trouble, could Du not?

Admiral Washington. Yes, sir; without any trouble at all. But, overnor, take the case of 16-year and 20-year men eligible for the et reserve. Under the law a man who serves 16 years must go in the expiration of the sixteenth year, otherwise he has got to wait or four years before he can go into the fleet reserve.

Mr. Kelley. That could easily be taken care of, I assume?

Admiral Washington. Yes, sir.

Mr. Kelley. And it was never intended to operate that way in be first place?

Admiral Washington. That is the comptroller's decision of the

Mr. Byrnes. Do you mean to say that if a man has served 17 years e can not go into the fleet reserve but has to wait until he has served 0 years?

Admiral Washington. That is correct.

There is another feature of this, Mr. Chairman, which I hope you fill not overlook, and that is the fact that these men who have erved 5, 8, 9, 11, 13, 14, and 15 years have all be promised something.

Mr. Kelley. Who promised them that?

Admiral Washington. General notoriety or when we tell them hat if a man reenlists he is eligible to the fleet reserve. There is he law. He reads and knows it. It is published on the bulletin oard. It has been circulated for the purposes of recruiting. It is ot something that has been done yesterday, to-day, or to-morrow;

it is something which the officers have taken a great deal of interes in telling the men. That is one thing which concerns me. The drastic step which you propose to take. Governor, would do away with what has been the accumulation of 50 years or so. There was a time when we did not have enlistment for continuous service. and we had a great many beach combers and men of that kind and of all nationalities comprising our Navy. Then we got the three was enlistment: that is, we got Congress to make the enlistment ontinuous and to give the men a little bounty for reenlisting, at his three months and then four months for an enlistment for a fouryear period. That has been what we have been drilling into the men for 35 or more years. I think the law for continuous service was first enacted in 1887 or 1888. When I first went to sea our crews were men that we picked up anywhere and of any nation and olisted for the cruise, one to five years, five years being the limit When the men left they had no claim on the Government whatever Now, under the law, he is allowed to come back upon presenting his honorable discharge in four months for reenlistment and is given four months' bounty and gets an increase of pay and gets a further increase if he is an American citizen, and if he has gone through eatain schools, etc., as practically most of these men now have done.

It has been the accumulation and result of the work of forty-old years. You propose to wipe that away without any consideration.

Mr. Kelley. How many men did we have in the Navy at that time!

Admiral Washington, 260,000 or 270,000.

Mr. Kelley. That was during the war—before the war. How many men did you have in the Navy when these people came in!

Admiral Washington. When I first entered the Navy I think we

had something like——

Mr. Kelley (interposing). No: just before the war.

Admiral Washington. We had about 67,000 authorized—about

54,000 in the service.

Mr. Kelley. What could you promise or anybody else promise that induced a man to come in when we had 54,000 to believe that he was going to be permitted to remain on the basis of 100,000 men or any other number above that!

Admiral Washington. The Act of August 29, 1916, which we prior to the war, gave him more inducements than any other one That was passed just before the war. That is why these men came

in. The fleet reserve was established by that act.

Mr. Kelley. My recollection is that you came before the committee a while ago and said that they were all leaving the Navy!

Admiral Washington, Yes, sir.

Mr. Kelley. That your ships were being tied up at the docks and at navy yards, that the ships were being destroyed in certain cases that they were all leaving.

Admiral Washington. Not all leaving. Mr. Kelley. Leaving to such an extent-

Admiral Washington (interposing). Great numbers were.

Mr. Kelley. Leaving to such an extent that the Secretary of the Navy reported to Congress—that the men in these essential ration were leaving to such an extent that pracically he had only—we remember—I have forgotten the exact figure.

Admiral Washington. That is substantially correct.

Mr. Kelley. That is, because all of these men in the higher ratings ere going to leave and had left.

Admiral Washington. I do not like the using of the word "all." Mr. Kelley. To such an extent that you could not operate the ips?

Admiral Washington. If you will look back over the hearings-Mr. Kelley (interposing). Is not that right?

Admiral Washington. No. sir.

Mr. Kelley. A year or two ago that these men in the higher ratgs were leaving the ships, leaving the service to such an extent that u had to tie up the ships, you could operate, only on a very limited sis.

Admiral Washington. I do not know as to that, because I was not fore the committee.

Mr. Kelley. That these men operating the engine rooms and all at sort of thing were all going out and had gone and that the ly way we could manage to get them back was to increase the pay inporarily, and you came here with that statement and we did it your statement, that they were all leaving and going into civil

Admiral Washington. That is a little too broad. If you will look rough it you will find that I said they were leaving, a large prortion of the machinists, electricians, and people of that kind, beuse they could get jobs outside, but at no time did I state that all the upper ratings were leaving. If you got that impression you → entirely wrong.

Mr. Kelley, I remember the situation very well, because we had

under advisement.

Mr. OLIVER. Just this qualification I would make to the statement: think, perhaps, instead of saying they were all leaving they said at some had left and perhaps they may have said a great many d left?

Admiral Washington. Yes, sir.

Mr. OLIVER. And they said further that there were a number who re threatening to leave?

Admiral Washington. Yes, sir.

Mr. Oliver. Unless they could be assured of some advance.

Mr. Kelley. But the situation would not have been improved by ybody's threatening.

Mr. Oliver. I recall that some representatives of the enlisted men ere before the committee. They also made a statement that they id been using every effort to have these men remain in the service ntil after the committee could act. Admiral Washington, Yes, sir.

Mr. Oliver. And that they had the promise and assurance that ev would remain in if legislation of this kind would probably be issed; that is my recollection.

Admiral Washington. That is about correct, as I recall it. That certainly about the way I intended to convey the information.

Mr. Kelley. Here is a letter from the Secretary of the Nav the Speaker of the House, in which he says—this is on the 20t December, 1919:

I am advised by the Chief of the Bureau of Navigation-

That was your predecessor?

Admiral Washington. Yes, sir.

Mr. Kelley (reading):

That the loss has been growing so rapidly that to-day we only have suff skilled men in the artificer and engine room branches proportionately? Navy of 45,000 men, though we have a total enlistment of 102,000 men in Navy.

Admiral Washington. I think that was correct at the time. Mr. Kelley. You came along here just a little while later

these upper ratings——

Admiral Washington (interposing). That has been said so m times that I should be very glad to again repeat it. We had du the war a total of so many—I do not remember—ships in com sion, the regular ships in the Navy; we had the Army trans service, the N. O. T. S. service—we must have had 2,000 ves maybe nearer 3,000, perhaps even more, and the Navy was called to supply the officers and men for those vessels. We took then the Navel Reserve and enlisted men in the Regular Navy, as know, to the extent of about 280,000, so that the total number officers and men, together with the reserve, was a little short 600,000. All of these ships and other transports engaged in service of war required officers and men, and they were supp with officers and men, the whole fleet, before I crossed to the d side: the whole United States fleet in the Chesapeake Bay and e where was turned into a training school for the making of p officers, primarily, the making and training of enlisted men. turned them out by the hundreds and hundreds. These men v appointed petty officers in 1917 and 1918 and sent to these 3,000 so ships so that those ships were manned and the war was suc fully conducted. The result was at the close of the war when began to demobilize, these Army transports were back, the N T. S. were turned over to the Shipping Board or otherwise, and Navy having these men enlisted in the Navy had to receive them it as the merchant vessels were transferred to their original work

Mr. Kelley. We understand that.

Admiral Washington. I want to finish this, because perhaps other members of the committee may not have understood it.

Mr. Kelley. I think we all understand it.

Admiral Washington. Until we had a large excess away bey the needs of the Navy proper when we reduced to 120,000 from total near 600,000 men in 1919 and 1920. Thus, we had this emous excess of chief petty officers, first class, and of the lower rate made to man the auxiliary naval vessels during the war but in export the needs of the Navy after demobilization of vessels. Those enlisted for the duration of the war or for four years. Under law they were allowed to extend their enlistment for a period of three, or four years, or they got \$60 bonus and then reenlisted those periods. Many of them did, because we could not say to honorably discharged person, "No, we do not want you:" we to take him back. So we did. The result was that we had a legal to the same period of the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was that we had a legal to the result was the result was that we had a legal to the result was the resul

cess, for instance, in bandmasters, in chief boatswain's mates, sailaker's mates, and men in a great many other ratings. The other en that we wished to hold, to which you have referred, in the enneer ratings, such as electricians, machinists, etc., could and did get bs with good pay outside and in considerable numbers they left That accounts for this letter which you have just read from the ecretary, but the people like the boatswain's mates, sailmakers' ates, quartermasters who were really seamen, and their life was on e sea, did not leave us for better jobs. They could not generally # them. A great many of them did go to the Shipping Board and aces like that temporarily.

Mr. Byrnes. They remained in the service?

Admiral Washington. They remained in the service and they acount for the excess almost solely. I have told that so often to the aval Affairs Committee, a member of which committee the govnor was at the time, that I think it is due to the rest of the comitee to understand how that excess occurred. It was not the purse of the Navy Department to create an excess of chief petty icers.

Mr. Byrnes. When the other ships went out it left you with these

Admiral Washington. Yes, sir.

Mr. Byrnes. Why a big excess of bandmasters?

Admiral Washington. All large vessels and many of the moderate e ones usually carry bands; all troop transports carried them, and en these vessels were turned back to their owners the bandsmen ng enlisted men were thrown back into the Navy, and thus we sumulated an excess of bandmasters, just as in other ratings. ese excess bandmasters have the same rights as any enlisted man, I that is a moral obligation which appeals very strongly to me.

Mr. Byrnes. The moral obligation might be so strong that you uld keep him after you had no duty for him to perform?

Admiral Washington. We have duties for all the bandmasters, we assign them as members of the bands. In one extreme case had 11 bandmasters in one band at one time.

Mr. Kelley. The Government finds itself in the same situation at a private individual finds himself in when he has no further for the employment of an individual. We can not go on. We we the situation in the navy yards. It is not an easy one. There s never a time, in my judgment, in the history of the Navy when e difficulties of administering the Navy the difficulties of the Secary of the Navy, approached what they are now. And I do not nk you can take the posititon that simply because we have hired en in the past and now find ourselves where we have no use for em that we have to keep on paying them out of the Government easury and tax the people to support them. I think you will have take a little different attitude.

Admiral Washington. I agree with you.

Mr. Kelley. If you fill up these higher ratings of the Navy, as u say you have, by men who have come from different ships during e war and who have been made petty officers on those ships during e war of the grade of yeoman—those are bookkeepers?

Admiral Washington. Yes, sir.

Mr. Kelley. Doing clerical work a good deal, and bandmast and some of those other semicivilian occupations, you have a lar number of people in these higher ratings drawing this high pay w are not mechanics, who are not electricians, who are not really o tributing to the operation of the ships, we are under no obligation continue those men during times of peace simply because we got the in time of war.

Admiral Washington. I agree with you very largely. I don think there is much difference of opinion between us there.

Mr. Kelley. Now, the time has come when we will have to con

them out. It is not a pleasant job.

Admiral Washington. We are combing them out rather rapidly Mr. Kelley. You must not think. Admiral, that this is a cheeful job for Congress or that it is a cheeful job for the Secretaryothe Navy. I do not know a man in the Government at this moment in my judgment, who has any more difficult problems and whole handled them in better shape than the Secretary of the Navy. We will try to help him to do some of these things. It would be very hard for him if we did not help him.

MAKING 16-YEAR SERVICE MEN ELIGIBLE FOR FLEET RESERVE.

Mr. Byrnes. Admiral your statement is based upon the idea the we failed to provide for the fleet reserve. Is that what you has complained about?

Admiral Washington, No, sir. I am hoping you will provide f the reserve. I do not know what Congress intends to do with t fleet reserve. I understand it is in another bill. If it is, then I this it is settled, provided the bill passes.

Mr. Byrnes. You would not have as much complaint if the #creserve were taken care of: then those men could be provided for

the fleet reserve!

Admiral Washington. If you allow them to go into the flett serve. There are many of them, but I do not think that the total maber should be reduced to 6.700.

Mr. Oliver. A considerable number of men are now eligible!

Admiral Washington. Not so many.

Mr. Oliver. Did I understand you to say that you had those figure Admiral Washington. No. sir; but there is not such a large number. The difficulty is with the 16-year men. As soon as we get to the class of 16 years—

Mr. Kelley (interposing). Suppose that were corrected so that

men would be eligible for the fleet reserve?

Admiral Washington, Yes, sir; that would relieve the pressurery much.

Mr. Kelley. Provide that the people who were dropped out subbe eligible for the fleet reserve after 16 years?

Admiral Washington. I think it should be made within the disc tion of the Secretary.

Mr. Kelley. We will help you out.

Mr. OLIVER. I think that the suggestion of Mr. Kelley is a very go one, but, at the same time, in order that we may know what the for of a suggestion of that kind would be if enacted into law, you were

rst have to submit to us a list of those who are between the ages of 3 and 20 years and whom you may thus provide for?

Admiral Washington. Yes, sir.

Mr. OLIVER. It might be, in the absence of definite information, nat we would not care for any great number of this excess, you undertand. I think it would be well to let there appear clearly the number hom you could thus provide for if we gave you the enabling legistion.

Admiral Washington. Yes, sir.

Mr. OLIVER. Then, I would like to know, and you could, perhaps, at the accurate information by submitting the question to the Judge dvocate General, whether under the law as it now stands those who old commissions as petty officers in these different grades would tree an obligation against the Government in the event we undertok to change their status?

Admiral Washington. The Government would have no legal obli-

tion.

Mr. OLIVER. Did you not intimate a few moments ago that there ight be?

Admiral Washington. In passing them out, if they did not go

llingly.

Mr. OLIVER. In the event they do not go willingly, have they conacts with the Government which, if no provision was made for eir pay, would give them a claim against the Government?

Admiral Washington, No. sir. A man whose enlistment ex-

Mr. OLIVER (interposing). But as to a man whose enlistment has expired!

Admiral Washington, I do not think anybody can bring a suit rainst the Government under their enlistment contract.

Secretary Denby. They have no legal claim.

Mr. Byrnes. Unless sooner discharged, like in the Army?

Admiral Washington, I do not think so.

Secretary Denby. There is no legal obligation.

Mr. OLIVER. I would like for you to just simply consult the Judge alvocate General, who is very familiar with the law, and have a ort statement placed in the record.

Admiral Washington, Yes, sir.

NUMBER AND PAY OF MEN IN FLEET RESERVE,

Mr. Oliver. How many have you in the fleet reserve?

Admiral Washington. A total of about 5,400.

Mr. OLIVER. You estimate that the average man—we will further ve to provide for those—that we might authorize to be transferred to the fleet reserve would have something around \$800 a year?

Admiral Washington. Something in that neighborhood; but less they had less service.

Mr. Oliver. I understand.

Admiral Washington. There is a proviso in the enlistment confact which says, "unless sooner discharged by proper authority." and therefore no legal claim lies against the Government if the dement should cancel a man's enlistment prior to its expiration.

PAY OF NURSE CORPS.

Mr. Kelley. The next item is "Pay of the Nurse Corps." Admiral Porrer. Four hundred and thirty-three at a total pay \$366,720. We have the details of those if they are of interest.

Mr. Kelley. Their pay is statutory?

Admiral Potter. Yes, sir.

Mr. Reed. The same as that for the Army.

RENT OF QUARTERS FOR NURSE CORPS.

Mr. Kelley. The next item is "Rent of quarters for members the Nurse Corps."

Admiral Potter. \$25,000.

Mr. Reed. That is in those cases where there are not quarters the naval hospitals for which the Government has to rent quare outside in order to have them conveniently located.

RETAINER PAY AND ACTIVE SERVICE PAY OF NAVAL RESERVE.

Mr. Kelley. The next item is "Retainer pay and active-serv pay of members of the naval reserve force."
Admiral Potter. That is put down at \$4,000,000.

Mr. Kelley. This is the item that the Admiral was talking about

That is based on what?

Mr. Reed. That amount was fixed at the time the estimates we submitted, based on taking care of the then existing fleet of na reserves plus 500 reserve officers on active duty. It was estimate that about \$4,000,000 would be required, although no careful calcu tion was made at that time.

NUMBER AND PAY OF AUXILIARY OFFICERS.

Mr. Kelley. Is this the fund from which the auxiliary officers: paid?

Mr. Reed. Yes, sir.

Mr. Kelley. How many of those are there?

Mr. REED. I have not the data.

Admiral Washington. About 270 now on active duty.

Mr. Kelley. You told me other day about 410.

Admiral Washington. In addition there are about 90 aviato making it 360 total. The number is being reduced continually.

Mr. Reed. The pay of the 270 reserve officers would be \$7463 For the other reserve officers no calculation was made, as I had und stood that none of those would be retained on duty. In the original calculation we provided for 230, whose pay would have been \$494.

Mr. Kelley. Is not that in the \$4,000,000?

Mr. Reed. At that time it was intended to be covered.

Mr. Kelley. Is this the pay and allowances?

Mr. Reed. Just the pay.

Mr. Kelley. This includes the 270?

Mr. Reed. Yes, sir.

Mr. Kelley. And how many others?

Mr. REED. Two hundred and thirty.

Mr. Kelley. And how much would be the amount?

Mr. Reed. \$494,560, making a total of \$1,240,767.

Mr. Kelley. That will come out of the \$4,000,000?

Mr. REED. Yes, sir; it was so intended.

Mr. Kelley. What would that leave in the \$4,000,000?

Mr. Reed. \$2,759,233. No definite calculation was made at the me as to just what number we would care for.

COSTS OF ENLARGING FLEET RESERVE TO VARIOUS SIZES.

Mr. Kelley. What would the 5,200 fleet reserve cost?

Mr. Reed. The present estimate in number of fleet reserve, which ill be based on the present number and the normal increase-

Mr. Oliver (interposing). What is the normal increase? Mr. Reed. In class 1-C, which is the 16-year grade, they are creasing at the rate of about 19 a month—there were 938 on the th of March—so we are estimating for 1,118 as the average numr during the fiscal year 1923. In class 1-D men, the 20-year men, 347 on the 20th of March, and they are increasing in numbers the rate of 54 per month, so we provide an average of 2,258 during ∍ fiscal year 1923.

Of class 1-B men we have approximately 3,500 at the present time, whom about 1,500 will be discharged prior to July 1, 1922, and out 1,000 during the fiscal year 1923. As they are not being re-. roller, the average number for next year is estimated at 1,500. Admiral Washington. If the present number of men in the Navy reduced to 65,000 from 94,000, that number will materially in-

Mr. Kelley. Out of the class we have been talking about here-

Admiral Washington. Yes, sir; very materially.

Mr. REED. In addition to the enlisted men I give you, there will 330 officers in class 1 of the Naval Reserves next year. The numr on March 1 was 419; 83 of them will be discharged prior to ly 1, 1922, and 11 during the fiscal year 1923, making the average rough the year 330. The total amount that will be required for e class 1 naval reserves is \$3,596,000.

Mr. Kelley. That is, with all the eliminations you have provided

Mr. Reed. Yes, sir. That is for the retainer pay, based on the esent numbers, figuring the normal number of decreases and in-≥ases in the various classes.

Mr. Kelley. You have taken off the \$746.207 for auxiliaries?

Mr. Reed. Yes, sir.

Mr. Kelley. And the \$494,560 for aviation?

Mr. Reed. Yes, sir.

Mr. Kelley. That leaves \$3,596,000?

Mr. Reed. Yes, sir; for the fleet reserve just as we figure it will be

ganized next year.

Mr. Kelley. Can you put in the record a statement showing to nat extent this fund will have to be increased for each 1,000 men no might be transferred to higher ratings?

Mr. Reed. I went over that with Captain Enoch early in the week, id we made some calculations. We decided that the average man who would be eligible for transfer, or the average retainer pay, w figure up \$61.49 per month. So we thought that \$720 per year \$720,000 per thousand would cover it. If you should assume 4,500 men would be transferred, the top ratings would re-\$3,240,000 in addition to the \$3,596,000, or a total of \$6.836,000 retainer pay. If provision is made for the retention of reserve duty in the auxiliary class, then an additional amount shoul added for their pay.

Mr. Kelley. How much did you say the amount would be

thousand?

Mr. Reed. \$720,000 per thousand men.

Mr. Kelley. We can figure with Admiral Washington as to probable number of officers, and adjust the figures accordingly believe that will open the door.

Secretary Denby. That being but an estimate.

Mr. Kelley. It is an experimental thing. You are going the a reorganization that is hard, and it is difficult for you to make mates on a thing like that. Of course, nobody will hold you stri to account for them. Deficiencies, if necessary, will not be consida violation of any law or a violation of any agreement with the mittee on this item.

REIMBURSEMENT FOR LOSS OF PROPERTY.

Admiral Potter. The next item is for reimbursement for log property, which we put at \$10,000. That is on account of sin and other marine disasters.

SIX MONTHS' DEATH GRATUITY.

The next item is the six months' death gratuity, \$150,000. The based upon past experience, and has been somewhat arbitra diminished.

Mr. Kelley. That makes a total of how much?

Admiral Potter. \$92,760,280.

Mr. Kelley. That is not quite right, because you make a de tion from \$4,000,000 to \$3,596,000 in the item for retainer pay. Reserve Force. All the other items we will have to figure between us. Does that finish pay of the Navy?

Admiral Potter. Yes, sir.

PROVISIONS OF THE NAVY.

Mr. Kelley. The next is "Provisions of the Navy."

Admiral Potter. This year we are asking under "Provision the Navy "for 1923 a total of \$16,599,826. That, of course, is b upon 65,000 men and 2,000 marines serving afloat. We allow 65,000 men of the Regular Navy, plus 2,000 marines serving a at any given moment—that is to say, for 67,000 men, which we estimated for at 50 cents per diem per man. The total cost u that calculation is \$12,227,500. The average cost of the ratio present is running \$0.5656. That is the actual figure, and no mate is involved. We compiled, for the second quarter of 6.779.047 rations, and found that the average cost, not inclu surveys, was \$0.5656.

Mr. Kelley. How did you arrive at that average?

Admiral Potter. We took our returns for the quarter, which nowed the number of rations actually consumed on each ship and or every individual enlisted man on it. We added all of that tother and divided by the total.

Mr. Kelley. What is included in the cost of the ration?

Admiral Potter. The cost of the ration includes the food; and ace nearly all of it is purchased, according to our plan as stated sterday, east of the Mississippi River, it includes freight.

Mr. Kelley. It is the cost of the food laid down at your store-

uses on the Atlantic and on the Pacific?

Admiral Potter. Yes, sir; but 90 per cent of our food purchases e made on the east coast.

Mr. Kelley. There are some handling charges. Are they inaded?

Admiral Potter. The ordinary handling charges from the staon board ship? No, sir. They are not included.

Mr. Kelley. So that it is really just the cost of the food?

COMPARISON OF ARMY AND NAVY RATION COSTS.

Admiral Porter. Yes, sir: and, of course, that carries with it the mainers.

I know that you will be interested in the matter of comparison beeen the Navy ration and the Army ration, and if you will allow s. I will discuss that a little. As you know, the Navy ration is eater in quantity, and I believe it is better than the Army ration. In quantity is directed by law. The quantity to be served to the listed men of the Navy is directed by law, and we furnish the tantity ordered by law, and that is 36 per cent more food than the rmy gets. That, of course, right away means a considerable addion to the cost of the food.

Mr. Kelley. Even if it were in exactly the same form?

Admiral Potter. Yes, sir. However, our ration has been running ore than 36 per cent greater in money value than the Army ration. has been running for the second quarter of 1922, or for the quarter ded December 31, 1921, 64 per cent in value greater than the Army tion for the same period. As I have said, our ration is 36 per cent eater in quantity. The Navy's food also costs more, because it is more expensive packages, and because several of our items are nsiderably more expensive, we having a greater proportion of nned meats, etc. In addition, the Army ration appears to cost less an it does. The money to procure the ration furnished the Army ceives several increments. The Army posts have gardens, and ey very substantially increase, without expense to the Governent, their ration. They also increase it through their operation of ost exchanges, whence they derive money to increase the ration. hey also sell the excess vegetables to the officers, and that money is rned in to increase the amount allowed by Congress for the ration. herefore, the Army ration, or the initial Army ration, so far as the larges against the Government appropriation are concerned, costs ie thing, and the value of the food actually furnished seems to me be considerably more. The Army ration, furthermore, does not include freight. This latter statement I have just procured from the Army within the last week, although informally.

Mr. Kelley. That is a very important point. Are you sure that

the Army ration does not include freight?

Admiral Potter. According to the informal statement that they have just given us, it does not. I have some other matters here. This touches upon freight, the matter we were talking about vesterday. The Army in the purchase of subsistence makes its purchase largely for delivery f. o. b. factory, and it is transported under Government bills of lading. Hence, the cost of that transportation is chargeable to an appropriation other than that to which the cost of the provisions is charged, and is not computed in determining the final cost of the ration.

Mr. Kelley. That is very important information, if you are cer-

tain about it.

Admiral Potter. That is the information we get from them.

Mr. Kelley. It is information that will convince, and that is the best kind of information.

Admiral Potter. There is another point I would like to mention. and that is that the cost of our ration increases beyond the cost of the Army ration. One of the reasons for that increase is because of the issue to enlisted men of the engineering and dynamo fores who have night watches. That is in accordance with law. The law allows us to do that, and we furnish them an issue between 8 p. m. and 8 a. m.

Mr. Kelley. A sort of midnight lunch?

Admiral Potter. Yes, sir: we usually give them sandwiches, coffee and tinned fruit.

Mr. Kelley. You can not do too much to suit me.

Admiral Potter. That adds from one-half a cent to 1 cent to the cost of the ration. There is one other thing that I think von were interested in. At one time last year, I think, you displayed at interest in the relative increase, and you pointed out that in 1919 and 1920 the increase in the value of the ration over the Army ration seemed to be in excess of the quantity increase. I am not sure of your language, but that was the effect of it. I have checked the rates back since 1910 up to the present time, and have the increase shown for each year. In 1910 our money value increase above the Army's was 63 per cent; in 1911, it was 58 per cent; in 1912, it was 54 per cent; in 1913, it was 61 per cent; in 1914, it was 52 per cent: in 1915, it was 46 per cent; in 1916, it was 33 per cent; and in 1915, it was 32 per cent.

Mr. Kelley. That was when the Army was abroad, and their cost

was high.

Admiral Porrer. That was in 1918-19, when our ration was only 12 per cent higher. Then it climbed to 28 per cent, and in 1921. was 78 per cent higher.

Mr. Reed. In 1918 it cost practically the same.

Admiral Petter. In December, 1921, it was running 64 per cent. Mr. Kelley. How is their ration controlled—by regulation of the Secretary of War!

Admiral Potter, Yes, sir: by the President acting through Secretary of War. They readjust the ration on his order, but on

is statutory.

Mr. Kelley. Of course the boys on shore can slip away and get heir lunch occasionally, whereas the boys in the Navy can not

Admiral Potter. That is true, and that is a very important reason. Many soldiers of the Army, they tell us, often actually eat two official meals per day, while of course in the Navy we feel that three olid meals must be provided, because our men are on the ships to ake all their meals.

Mr. Kelley. Admiral Wilson was discussing that in connection with the Military Academy at West Point, and it appears that they

have one self-served meal that the boys get in a cafeteria.

ESTIMATE FOR SUBSISTENCE FOR 1923.

Admiral Potter. Here is another thing: The subsistence for 1923 or crews serving on Army transports is estimated at 55 cents.

Mr. Kelley. That is the cost?

Admiral Potter. That is their estimated cost for 1923 for their eople serving on Army transports.

PROVISIONS ON HAND.

Mr. Kelley. How much provisions have you on hand? Admiral Potter. We have now about \$6,200,000 worth.

Mr. Kelley. Could we not eat into that very comfortably?

Admiral Porter. We did that last year. We had about \$15,000,000 Forth, and we began eating into that. We thought that in view of he diminished number of enlisted personnel we might begin to eat

nto what we had normally regarded as our reserve stocks.

Mr. Reed. There are certain provisions, such as dried and tinned provisions, that we purchase annually. These are purchased annually at certain seasons of the year, because that is the time when re can get the best price. Therefore of some items we may have a ear's supply on hand, while of other items of which the value does ot fluctuate particularly we carry a shorter supply, or simply nough to meet the issues.

Admiral Potter. This \$6,000,000 worth would be approximately

six-month supply.

Mr. Kelley. Generally you have about three months' supply on and, do you not?

Mr. Reed. No. sir: of some items we must carry at least a year's

upply_in stock.

Mr. Kelley. In the case of canned corn, tomatoes, and that kind of stuff, you buy your supply at the time the crop is harvested or

Admiral Potter. Yes, sir; butter and tinned fruits and vegetables,

particularly.

Mr. Kelley. You have really done pretty well, and you did not

hink you could do this well, did you?

Admiral Potter. No. sir; but when you were talking about 60 ents for the ration last year, I did not suppose that we would use he supply down below 15 months. I took it for granted that we rould continue to hold our war reserve.

Mr. Kelley. You figured on 68 cents?

Admiral Potter. That was the initial figure.

Mr. Kelley. Did you consent to 60 cents?

Admiral Potter. No. sir.

Mr. Kelley. What was it that you agreed to?

Mr. Reed. 63 cents.

Mr. Kelley. In that case the layman made a better guess you did.

Admiral Coontz. That was done by letting them cut down to t

months.

Admiral Potter. We have eaten up eight or nine million dol worth of supplies that ordinarily would have remained in stock.

Mr. Kelley. I do not think farm products will go much le than they are. You probably will not buy much cheaper next;

than you have this year.

Admiral Porter. Within the last few months we checked up the food situation in 15 cities, and it had gone up on an averag from 1 to 2 per cent. Whether that increase will continue or n do not know.

AVERAGE RATION COSTS.

Mr. Kelley. You will get along with 50 cents this year? Admiral Potter. I hope so, sir; if we have good luck.

Mr. Kelley. What is the Army ration?

Admiral Potter. They requested 34 cents, I think. They wa 34,39 cents.

Mr. Kelley. It is costing 32 cents, and the bill carries 30 c For the Navy we will have to add 20 cents to that, which would an increase of 66 per cent.

Admiral Porren. Yes, sir: and our monetary increase is 64 cent now. Last year it was 78 per cent, and in December, 192 was 64 per cent. I understand that the War Department states approximately \$1,150,000 will be needed in addition to the amprovided for the Army by the House bill.

NUMBER AND COST OF DESTROYER RATIONS.

Mr. Kelley. I do not suppose there will be quite as much for stroyer rations during the coming year, and would not that more than 4 cents difference in the ration as compared with last we What is your destroyer average?

Admiral Porter. For the same quarter I have named, the strover ration amounted to 2,382,790 rations, and the average

69.77 cents.

Mr. Kelley. About 70 cents in round numbers?

Admiral Potter. Yes, sir.

Mr. Kelley. If it were not for that your ration would come at down under 50 cents. As I recall, you figured on something 6,000,000 rations. How many men will 6,000,000 rations feed!

Mr. Reed. Seventy-five thousand men.

Mr. Kelley. That would last how long a period?

Mr. Reed. Three months.

Mr. Kelley. They would last three months for that number men?

Mr. Reed. That is according to the last complete returns we have. Mr. Kelley. The returns covered October, November, and Dember?

Mr. Reed. Yes, sir.

Admiral Potter. That allows for giving the men the full quantity lowed by law during the three months. We do not get monthly turns showing the ration, but only quarterly returns.

Mr. Kelley. If there is a reduction, it does not show until you get ur old stock used up. Your old stock is in there at a certain price. Admiral Potter. It is adjusted to the actual price all the time.

Mr. Kelley. It is adjusted to the current price all the time?

Admiral Potter. Yes, sir.

Mr. Kelley. You can do that because it is not tied up in the other nd?

Admiral Potter. Yes, sir.

Mr. Kelley. You use this without being paid for it?

Admiral Potter. Yes, sir; direct from the provisions appropriation without reimbursement to any other fund. I have here a table hich shows each component of the ration, compared with the Army ation and our ration. I do not know whether that is of interest

Mr. Kelley. How many destroyers, both active and in reserve, ad men on them?

Admiral Coontz. 278.

Mr. Kelley. During those three months? Admiral Coontz. I think that is about right.

Mr. Kelley. There were not many of them laid up?

Admiral Coontz. No, sir; not of those; we had some, but I did not bunt them.

Mr. Kelley. Suppose you had 103 in full commission and the ther 175 laid up as a great reserve defense for the country, what ifference would that make in the ration?

Mr. Reed. The distribution of the ration cost, taking the cost, essel by vessel, and types of vessels, and applying that to the vessels proposed to be kept in commission, brings us just about the same ture.

Mr. Kelley. That is where you get your 4 cents, is it; making

50 cents instead of 54 cents?

Mr. Reed. No; it still shows 56 cents. By taking the ships that e expected to be in commission and the ration cost for each type vessel, it gives us an average cost of \$0.56379 in the Atlantic and .57881 in the Pacific, which is just about the cost of the present tion. In other words, the distribution of men between ships caring supply officers and those not carrying supply officers would in about the same proportion as it is now.

Mr. Kelley. I would not think it would be.

Admiral Potter. If you will look at that sheet you will see how worked that out.

Mr. Kelley. Of course, they were in reserve, but they had 50 men them all the time.

Admiral Coontz. But they had opportunities for saving because ey were very often tied up six together, and they would probably ess on one ship, the same as we use steam to heat six, and there

would be a cheapening in that regard as compared to a ship cruising

by itself.

Admiral Potter. I do not know whether it would be interesting to show the relative nutritive values between our Navy and other navies.

Mr. Kelley. I think we are perfectly satisfied to have you feel

the boys the very best.

Admiral Potter. Our ration is 8.7, the British 7.2, the Japanese 6.3, and the French 3.7.

LOSSES BY SURVEY ASHORE AND AFLOAT.

Mr. Kelley. You have an item on this list of losses by surver

ashore and afloat. How do you estimate those losses?

Admiral Potter. That is based upon past experiences, which we went over for a long while back. Each return we get each quarte shows the losses by survey just as it shows the cost of the ration and that item of \$519,670 is 41 per cent of the estimated cost of the ration—that is, of the \$12,227,500. It just happens to be that percentage.

Mr. Kelley. This includes the ration for the midshipmen, dos

it not?

Mr. Reed. Yes, sir.

Admiral POTTER. That is, the total does?

Mr. Kelley. The cost of the ration is averaged in.

Mr. REED. We take the subsistence of the entire number of men# the rate we use; then if subsistence is furnished to aditional numbers as to the warrant officers, midshipmen, and nurses, that goes in as a additional item.

Mr. Kelley. That is not included in the ration of 50 cents? Mr. Reed. No. sir.

Mr. Kelley. That is a separate matter?

Mr. Reed. Yes, sir.

Mr. Kelley. But it is included in this total of \$16,000,000?

Mr. Reed. Yes, sir.

ADVANCES TO ACADEMY FOR PURCHASE OF FARM.

Mr. Kelley. Admiral Wilson told us the other day that the \$1.6 which you have here may be reduced to 80 cents, in round numbers and I think he said 81 cents, if we did not require them this year to put up anything for the reimbursement of the general account of advances.

Admiral Potter. I think that is correct, if we were not required to have the price which the dairy charges to midshipmen for fool furnished. In order to build up a sinking fund for the purpose of making up the \$250,000 advance under general account of the vances we now credit a portion of the \$1.08 to a sinking fund.

Mr. Kelley. What would be your recommendation with regard to the \$250,000 that was loaned to the academy for the purpose \$\pi\$

buying a farm?

Admiral Potter. In order to enable you to reduce from \$1.08 v 81 cents. I think the best way would be to have Congress forgive 5 that \$250,000.

Mr. Kelley. There is really not much sense in appropriating 1.08 in order to reimburse that fund, because it is just sending it round through the academy and back into the Treasury.

Admiral Porter. That is precisely it.

Mr. Kelley. Suppose you refigure that at 80 cents, and that will ome pretty close to the West Point figure. How much would that ake off?

Mr. Reed. \$245,280, making the amount required for the ration f midshipmen \$700,800, at 80 cents per day. We have not been acamulating 28 cents per man per day during the past; the subsistence as been costing more than that, and that is evidently due to other ductions in cost.

Admiral Potter. It was not until quite recently that a decided efrt was made to accumulate a sinking fund.

COMMENDATION OF SECRETARY OF NAVY FOR COMPENSATION TO MIDSHIPMEN AFTER GRADUATION FROM ACADEMY.

Mr. Kelley. Mr. Secretary, what recommendation, if any, would ▶u make as to any compensation or other payment to the midshipen who are to be commissioned and discharged from the Academy ter graduation?

Secretary Denby. My recommendation would be that not less than x months' pay as ensign in the United States Navy shall be paid each man qualified for commission under the law after duly passg the examinations and ready to accept a commission who is not mmissioned in the United States Navy, but who receives his dioma upon graduation and passes out of the service.

Mr. Kelley. Without regard to whether they enter any other

ranch of the Government service?

Secretary Denby. Yes. sir.

RATIONS FOR COURT-MARTIAL PRISONERS.

Admiral Potter. The next item is 910 court-martial prisoners at cents per diem, which would amount to \$132,860. That is based pon past experience. We do not have to furnish court-martial prisners undergoing punishment full rations, and we estimate that we an feed them for 40 cents per diem and at the same time give them curishing food. That amount is \$132.860.

COMMUTATION OF SUBSISTENCE FOR NURSES.

The next item is commutation of subsistence for nurses not substed by the Government, for which the estimate is \$37,412. urses' commutation is based upon the Army law.

The next item is commutation of subsistence for nurses on leave

ith pay, for which we estimate \$5,000.

The next is for 392 nurses at hospitals, at 60 cents per diem, \$85,848.

That, again, is allied with the Army by statute.

The next is for the difference that must be allowed between 75 ents and 50 cents per diem for 1,000,000 sick days in hospitals, chich amounts to \$250,000.

Mr. Kelley. The hospital allowance is 75 cents?

Admirla Potter. Yes, sir.

Mr. Kelley. Is that permanent law?

Admiral Potter. No. sir: it is carried in the appropriation Mr. Reed. It is costing in the neighborhood of \$1 on the avoit varies from 90 cents to something over \$1 per day.

SUBSISTENCE OF MEN ON DETACHED DUTY.

Admiral Potter. The next item is for subsistence of men of tached duty. The Bureau of Navigation estimates the number as 3,229 throughout the year, and the total estimate is \$1,720, less subsistence in kind included in item 1, amounting to \$292, leaving the additional amount that must be allowed for subsistence of men on detached duty at \$1,278,428.

SUBSISTENCE OF SHORE PATROLS.

The next item is for subsistence of shore patrols, covering 7% for one-half time, at \$5 per day, \$684,375, less subsistence in included in item 1, amounting to \$68,438, leaving the total esti \$615,937.

For losses by survey, both ashore and afloat, the estimate v is 44 per cent of item 1, amounts to \$519,670. I think that is a conservative figure.

Mr. Kelley. That covers the loss of food that spoils?

Admiral Potter. Yes, sir; inevitably some fresh vegetables go wrong. For instance, potatoes loaded in New York for (tanamo must be picked over very carefully. That estimate is \$1

The final item is labor at navy yards handling provisions. \$30 Mr. Kelley. I wonder if any such item as that is included i Army ration; that is, that charge for handling provisions?

Admiral Potter. I understand that it is not included, and the not computed as a part of the cost of their ration. Our total for item, making the corrections, is \$16,328,818; that is, after matche adjustments for the midshipmen, etc.

Mr. Kelley. You will put that in the record in the form of at will you not?

Admiral Potter. I will do so.

Provisions, Navy, 1923 (revised for 65,000 men).

1. Sixty-five thousand men Regular Navy, 2,000 marines serving affoat, a total of 67,00 men, at 50 cents per diem (\$182.50 per annum)	\$12, 227.
2. Nine hundred and sixty-one warrant officers entitled to ra-	
tions at 50 cents per diem (\$182.50 per annum)	175,8
at 81.08 per diem (\$292 per annum)	700.8
4. Nine hundred and ten court-martial prisoners at 40 cents per	
d'em (\$146 per aunum)	132.
ernment, 14,965 days at \$2.50 per diem	37.4
 5a. Commutation of subsistence for nurses on leave with pay 6. Three hundred and ninety-two nurses at hospitals at 60 cents 	5.0
per diem (8219 per annum)	85.1
7. Difference between 75 cents and 50 cents per diem for 1,000,000 sick days in hospital.	250.
8. Subsistence of 3,229 men on detached duty,	
\$5,117.04 per day, total per year \$1,867,720 Less subsistence in kind included in item 1 589,292	
Less subsistence in kind included in item 111 - 086, 292	1, 278,

Subsistence of shore patrol, 750 men for half time, at \$5 per day\$684, 375 Less subsistence in kind, included in item 168, 438	
Losses by survey, ashore and afloatLabor at navy yards, handling provisions	
Total	16, 328, 838. 00

MAINTENANCE.

Mr. Kelley. The next item is maintenance.

Mr. Reed. The estimate is \$8,100,000.

Mr. Kelley. That is what you are still asking for?
Mr. Reed. We are still asking for that, for this reason, that while shows an apparent reduction of 10 per cent from the appropriation r this year, which was \$9,000,000, it is an actual reduction of 334 r cent, for the reason that, due to the 5-day week, expenditures the navy yards ran less this year than we had anticipated for ose items chargeable to this appropriation. When we found that e shortage in the appropriation for freight had become so acute transferred to maintenance all labor charges that we had been ying from the appropriation for freight. That involves a reiction of \$2,100,000 this year. We expect to continue charging at to maintenance, and to use the freight appropriation only for ansportation charges.

Mr. Kelley. If that were paid out of the freight item, this would

- \$2,000,000 less?

Mr. Reed. Yes, sir; but we have not, in asking for freight, made ovision for sufficient funds. The tentative estimate under freight, hich showed some labor charges, is necessarily subject to change cause of changed conditions.

CIVILIAN EMPLOYEES.

Mr. Kelley. Under the head of labor you have clerks, stenograpers. typists, inspectors, and messengers estimated at \$3,500,000; ock men, \$1,775,734; miscellaneous laborers, \$1,358,788; making a tal for labor of \$6,614.522. Now, what about your clerical force? hat are you paying this year for clerks, stenographers, typists, in-

ectors, and messengers!

Mr. Reed. The total positions are now running just over \$3,500,000. ${f M}_{
m P}$. Kelley. These are the clerks at the various yards and stations ated outside of Washington, except the navy yard at Washington? Mr. Reed. Except the navy yard at Washington, and there are sev-If field activities which are housed in the Navy Department Buildz, but which are a part of the Naval Establishment. It includes supply, disbursing, and accounting departments of the navy rds, and the cost-inspection service, property accounting, Navy sbursing, and Navy allotment offices.

INSPECTION COSTS.

Mr. Kelley. With your inspection discontinued on the new conuction, you must be able to make quite a cut there.

Mr. Reed. There will be some reduction in the cost-inspection ork on vessels under construction, but there will still be a considerable amount of work in connection with the accounts and cont to be canceled. There will have to be other cost inspections of contracts that will be canceled, where we are not working cost-plus basis, but must inspect the contractor's books before masettlements. Therefore, the cost of the field-inspection force be at least as large next year as at this time.

Admiral Potter. I think the scrapping inspection will continuabout two years. That was my experience on the compensation be and I think we will be wrestling with settlements for certainly a

and a half.

Mr. Kelley. The only reason you think you can not make a c the inspection force is the fear that it will require about as muc spection in the cancellation of contracts as you have now in the b ing?

Mr. Reed. Yes, sir.

Admiral Porter. I was told the other day by the chairman o compensation board, who has given a lot of consideration to things, that that work will be greatly increased for him.

Mr. Kelley. We went into this item quite extensively last

Did we cut you any?

Mr. Reed. Very materially.

Mr. Kelley. You are getting along with it very well, are you Mr. Reed. No, sir; we have had trouble. The only thing that pust through was the marked reduction in the navy yard work. cessation of productive work at the navy yards aided us on this materially.

Mr. Kelley. If the conference had not come along, you would

had a deficiency?

Mr. Reed. Yes, sir. I might say this in connection with it, the February, last year, the Appropriations Committee, or the defici subcommittee, was asked to give us authority to employ more perfor the accounting work and the work of the navy yards, because work had been running behind under the limitation prescribed. It refused to give it, and it was largely because of that failure to additional help that the work ran behind and the deficiency of \$1,000 in construction and repair and engineering developed. They was behind, and we did not know what was being spent. With further decrease in the appropriations, it will be found necessare furnish information promptly and to furnish the information in detail to all the naval activities, in order that they can spend to money to the best advantage and not overspend their allotments.

Admiral Potter. It is the money spent from this appropria that enables us to muster a great deal of the information that have been presenting to you here. While we assemble it here, based upon reports from the field. It is a very direct contribute to the information that we are able to lay before you. One it that makes necessary expenditures under this appropriation is disposal of surplus stores. At each navy yard they are constant inventorying, and nearly all of those charges are allocable to appropriation. There is another point, Mr. Chairman: We are revising our accounting system. We have got a completely plan which is now being inaugurated, and that means addition work in the field and in the accounting offices. It increases the

y by day, because we will furnish much additional information in gard to the Naval Establishment not hitherto furnished.

EMPLOYEES AT BROOKLYN YARD.

Mr. Kelley. How many employees are you asking for next year at uth Brooklyn?

Mr. Reed. One hundred and eighty-five in the clerical group and 1 stockmen, store men, checkers, and laborers.

Mr. Kelley. That is a total of how many? Mr. Reed. Three hundred and fifty-six.

Mr. Kelley. You have more there now than when you were here fore?

Mr. Reed. That was in the clerical group; it is now 185 in the rical group as against 314 last year.

Mr. Kelley. Those two last year totaled 634, and what is the total w?

Mr. REED. Three hundred and fifty-six.

Mr. Kelley. You do not think you can make any further reducns in either of those stations?

Mr. Reed. Not to any appreciable extent. Where we can dispense the the services of employees we are doing so, but the reports of a work as they come in indicate that they are having difficulty in sping up. In the naval supply depot we had to authorize them to rk in the supply department six days a week for three months in der to get up to date, as they had been running behind, and they a not entirely up as yet.

COST OF INSPECTION FOR 1922.

Mr. Kelley. How does your cost inspection run this year? Mr. Reed. It is running about \$300,000 at the present time.

Mr. Kelley. \$300,000 a year?

Mr. REED. Yes, sir.

Admiral POTTER. I think in 1921 it was nearly \$600,000.

Mr. Kelley. Last year Mr. Reed said:

The cost inspection service is an entirely new proposition that we did not ve at that time, and that 90 per cent will amount to about \$1,000,000 at the sent time.

Is that \$1,000,000 a year?

Mr. Reed. Yes; that is what it was costing at the time of the aring.

Mr. Kelley. And now it has dropped down to \$300,000?

Mr. Reed. Yes, sir.

Admiral Potter. It was about \$600,000 last year.

Mr. Kelley. You think it will take about \$300,000 next year? Admiral Porter. Yes, sir; and I think it will continue at that rate r six months after this year, 18 months at least.

NUMBER AND PAY OF CIVILIAN EMPLOYEES AND WHERE STATIONED.

Mr. Kelley. How many people would this carry—clerks, stenogphers, typists, inspectors, and messengers? Mr. Reed. Two thousand six hundred and ninety-seven.

Mr. Kelley. Have you a table showing where they are detributed!

Mr. Reed. Yes, sir.

Mr. Kelley. And the average would be 2.600 divided into this

Mr. Reed. Yes, sir: that would be the average pay. I also have: summary like this showing the distribution of the clerical group and by our activities generally.

Field employees paid from the appropriation "Maintenance, supplies, and accounts," 1922.

	Clerical.		Semiclerical.			Supply.			
	Num- ber.	Total daily pay.	Total annual pay.	Num- ber.	Total daily pay.	Total annual pay.	Num ber.	Total daily pay.	Total annual pay
Supply	448	2, 181, 74		32×	1, 492, 48	\$327, 132.00 388, 044.80		\$ 3, 1 95, 50	\$60%, GLB
Disbursing. Miscellaneous. Property accounting. Disbursing.			40, 508, 00 128, 100, 00		41. 52			29.36	12,140
Navy allotment Total						753, 428, 00	821		916, 441.0

Mr. Kelley. You have 1,985?

Mr. REED. And the other group. As to the people in that group under a ruling of the Civil Service Commission, we must charge them to the classified limitation after the 1st of July.

Mr. Kelley. Will you please repeat that?
Mr. Reed. Those people are now rated as calculating-machine. operators, material checkers, etc., and under a ruling of the Cirl Service Commission we must rerate them in the clerical group and charge them to the classified limitation, so that the reason why are asking for the continuation of the \$3,500,000 is so we can include the second group within the classified limitation.

Admiral Potter. They have allowed us until the end of the current fiscal year to carry them into the clerical limitation group.

Mr. Kelley. How many stock men and policemen have you?

Mr. Reed. There are 821 altogether.

Mr. Kelley. What is their average pay?

Mr. Reed. Approximately \$1,100 per annum.

LARORERS.

Mr. Kelley. You have an item entitled "Miscellaneous laborers"

How many have you!

Mr. Reed. That is the unskilled labor engaged in handling store in and out of the storchouses, around the storchouses, and so on s distinguished from the skilled ratings of checkers, store laborers, & It is the common labor.

Mr. Kelley. Do you think you will need as many next year?

Mr. Reed. Yes, sir.

Mr. Kelley, I presume that is because of the scrapping of the ships!

Mr. Reed. Yes, sir. The ships which will be decommissioned will turning in their stores; they have to be sorted and the stock dissed of to the best advantage, either through shipment to other rds for use or offered for sale.

Admiral Potter. It is immensely important that the stores be ndled as they come in, otherwise they accumulate and purchases ght be made in consequence of not having the stock available for stant use, so that if we keep the stores flowing it is an advantage

Mr. Reed. Unless we can keep our stock sorted and our records up, that we know what we have on hand, we would undoubtedly buy indreds of thousands of dollars worth of materials that we had on nd, possibly in the same yard for which the purchases were made.

MATERIAL FOR ISSUE TO SHIPS AND OFFICE APPLIANCES.

Mr. Kelley. The next item you have is material for use and under at heading you have fuel, heat, light, and power in offices and storeuses, \$169,135, and office appliances, \$94,035. Do you need to buy

ore of these appliances during the coming year?

Mr. Reed. The office-appliance end of it is largely the rental of e tabulating machines we use in our accounting departments, as ell as the cards and supplies that go with them. As far as purases of additional typewriters and adding machines are concerned, ey would practically be nil. That is one of the clauses we must rry because it might be necessary to purchase a particular item.

BOOKS, BLANKS, STATIONERY, ETC.

Mr. Kelley. Books, blanks, and stationery, etc., \$157,040.

Mr. Reed. We furnish all forms used for accounting purposes hore and the stationery used in the supply departments.

Mr. Kelley. These figures are based on your present expenditures,

e thev!

Mr. Reed. No. sir; there is a reduction from the present expendires for this purpose of nearly 25 per cent.

Mr. Kelley. Packing boxes and materials, \$165,052.

Mr. Reed. That is used in preparing the materials for shipment to e fleet and other stations. We use the scrap materials that come as far as we can, but we do have to purchase new materials.

TRANSPORTATION-TRUCKS, LOCOMOTIVES, ETC.

Mr. Kelley. The next heading is transportation—trucks, locomoves, cranes, etc. What is your explanation of that?

Mr. Reed. We are charged at the industrial yards with a proporonate share of the expense of transporting supplies in and out to the eight stations, and so on.

Mr. Kelley. The amount of that item is \$60,750?

Mr. Reed. Yes, sir.

INTERIOR FITTINGS, ETC.

Mr. Kelley. Interior fittings—shelving, racks, lockers, bins, parions, etc., \$104,750.

Mr. Reed. That is an expenditure which is necessary for taking care of the supplies we are getting in from ships, and so on, especially the ships going out of commission.

LABORATORY EQUIPMENT.

Mr. Kelley. Laboratory equipment, \$7,090.

Mr. Reed. That also includes supplies and is practically all for supplies in our chemical laboratories, where we have to make test of steel, rubber, textiles, and other materials which we purchase.

TOLLS, FERRIAGE, ETC.

Mr. Kelley. Tolls, ferriage, and miscellaneous, bridge tickets ferry tickets, and miscellaneous expenses of disbursing offices. \$156,425.

Mr. Reed. That is for supply, accounting, and disbursing offices. They are various charges incurred on account of the shore stations and which are not chargeable to any of the headings above.

Mr. Kelley. What do you mean by bridge tickets?

Mr. Reed. We must have bridge tickets when we send employed or supplies across bridges. In some places we must pay toll.

Mr. Kelley. That applies to your shore stations?

Mr. Reed. Yes, sir. You will note that the bulk of our expense a shore.

SHIPS' EQUIPMENT.

Mr. Kelley. You have an item for expenses of ships' equipage.

Mr. Reed. The expenses there are based on the ships which it is proposed to keep in commission and on the usual replacement that is

necessary in regard to items of equipage.

Mr. Kelley. The amount is \$224,610?

Mr. Reed. Yes, sir. There are three light cruisers going into commission and the equipage for them will have to be furnished from this amount.

Mr. Kelley. What do you mean by equipage?

Mr. Reed. Well, it would be the classes of material that the Buren of Supplies and Accounts pays for—safes, adding machines, typwriters, and comptometers.

Mr. Kelley. These are office supplies? Mr. Reed. Yes; the office end of it.

Admiral Potter. And mess-room equipment?

Mr. Reed. Yes, sir; silver, linen, etc.

Admiral Potter. And we are charged with furnishing musical struments for the bands, too. That is just an ancient custom.

Mr. Reed. That is one of our inheritances from the abolishment of the Bureau of Equipment.

SUPPLIES.

Mr. Kelley. You have an item of supplies totaling \$377.780.

Mr. Reed. Those are based on the allowances to the ships of the same and t

various classes of expenditure chargeable to our appropriation. It to the first four items an allotment is fixed for each type of ship at the amount required is based on the number of ships and the amount

their authorized allowances. The removal of garbage and ashes is cessary at ports where we have no garbage or ash lighters and here they are not allowed to throw the garbage and ashes overboard to the harbor.

Mr. Kelley. That makes a grand total of \$8,131,189 against

,500,000 this year.

Mr. Reed. \$9,000,000. As I say, we have assumed charges formerly id otherwise amounting to approximately \$2,100,000.

NAVAL SUPPLY ACCOUNT.

Mr. Keller. How much money have you in the naval supply count?

Admiral Potter. \$253,000,000 or \$254,000,000.

Mr. Kelley. How much of that is cash?

Mr. Reed. We have about \$7,000,000 standing to our credit on books of the Treasury, but as against that there are outstanding atracts for the delivery of supplies which will be coming along counting to about \$32,000,000; at the same time, as those supplies being delivered there will be issues, so that credits will accrue the fund.

Mr. Kelley. What reason is there for keeping that fund so large? Admiral Potter. We believe ourselves that it ought to be about 50,000,000.

PROCEEDS FROM SALE OF SURPLUS PROPERTY.

Mr. Kelley. How would you suggest it could be brought down? Admiral Potter. I would suggest that we continue doing as we doing, namely, selling undesirable stock. I mean, stock not sirable for naval purposes, and as rapidly as the market permits, d gradually that thing will work out so ter as undesirable stock

Mr. Kelley. When you sell stock that you do not need for naval rposes the money goes in the Treasury to the credit of this fund.

Mr. Reed. No. sir; it goes to miscellaneous receipt

Mr. VINING. When material is declared surplus and it is sold as rplus the receipts go into the miscellaneous receipts.

Mr. Reed. So the Comptroller General has recently informed us. though we did not know that until recently.

Admiral Porter. Under the Comptroller General's recent ruling matter will gradually take care of itself.

Mr. Kelley. Suppose you had an article that was carried in the val supply account at a certain figure, it was declared surplus the Navy Department and sold at half that figure, how would u straighten that out on your books?

Mr. REED. We would charge it off as a loss in the capital account.

Mr. Kelley. So it requires no legislation?

Ir. Reed. No. sir: we have authority to charge off that loss.

Ir. Kelley. When did you get that authority?

Ir. Reed. In the act of March 1, 1921.

dmiral Potter. At one time this account ran over \$300,000,000, we are now down to \$255,000,000.

Mr. Kelley. When you sell to the Navy Department, why can this same principle apply and have the money go into the Trea

and bring your fund down in that way!

Admiral Potter. The Navy only buys desirable stock, stoc wants to use, and if half of that each time went into the Treathere would be a constant diminution of the available liquid so and by and by we would not have any money with which to buy a thing new.

Mr. Kelley. Suppose you dropped it down to \$150,000,000.

Admiral Potter. Our effort would be to sell the undesirable stand keep in stock about \$150,000,000 worth of live stock, and the what we are trying to do now.

Mr. Byrnes. Have you \$100,000,000 worth of stock that you we

sell?

Admiral Potter. Yes, sir.

Mr. Byrnes. In order to reduce it to \$150,000,000?

Admiral Potter. Yes, sir. We are taking a new inventory twith a view of establishing that, and we have doing that since the part of November. We did have inventories before that, but we taking an elaborate new inventory.

Mr. Byrnes. What constitutes the greater part of that—I meathe \$100,000,000 you would like to sell in order to reduce your

fund?

Secretary Denby. He would not actually get \$100,000,000.

Mr. Byrnes. No; but it would enable him to reduce his account he manner he has described.

Mr. Reed. The inventory work and the work in connection picking out the material which should be disposed of is one of things that is costing us money in the Navy.

KIND OF MATERIAL ON HAND.

Mr. Byrnes. You have such an inventory now?

Mr. Reed. We have had an inventory, but it has been necessal retake it, because inaccuracies have been found in some of it be of the way the materials were stored, and also to revise the ame reported surplus during the past two years; in some cases it has found that we had more on hand that could be disposed of an other cases unexpected demands came up which made a lesser quity available. So that work is being gone over all the time in a keep the information current.

Admiral Porter. I had a special note as to some of these items I can give you some of them without the note. We have an enor quantity of copper that we do not think we will need; it is perfected stuff, but we are only holding it now because we do not the state of t

the market is good.

Mr. Byrnes. You have no market for it at all?

Admiral Potter. Not a good enough market. We have spare chinery parts—bolts, nuts, rivets, and washers; we even have a of spare hemp; it is perfectly good hemp, but there is not much of it; we have canvas and canvas equipage; blocks and wrecking cessories; we have all kinds of heavy metal.

Mr. Byrnes. It is scattered all over the country?

Admiral Potter. Yes; but there is far more of it at the naval supy depot in New York than anywhere else; there is also a conderable quantity at Boston and Hampton Roads. Those three aces, perhaps, have the most.

Mr. Byrnes. I think you should have the right to sell it as mickly as you can, but there are some things for which there is a

ery poor market at the present time.

Admiral POTTER. We are selling just now a little less than \$600,000 orth a month, but we did much better than that for over a year ster the war. The total amount sold has been \$113,000,000, but ist at the present time it runs pretty close to \$600,000 a month.

Mr. OLIVER. What percentage of the original cost are you realiz-

ιg!

Admiral Potter. We are now recovering about 27 per cent; for a ring time we recovered almost 50 per cent, a very high return, but at is not so now. If we average 30 per cent when we have finished e will do extremely well.

Mr. Kelley. Your purchases are mainly for the Bureau of Ord-

ance. Do they purchase from you?

Admiral Potter. From the naval supply fund, you mean?

Mr. Kelley. Yes.

Admiral Potter. No, sir. They usually buy with their own apropriations.

Mr. Kelley. And their funds are not tied up in this at all?

Admiral Potter. No, sir. However, there is about \$400,000,000 orth of ordnance that we are carrying on our books, but it does not atter into this fund at all. We are carrying it on our books, but it oes not enter into this fund.

Mr. Kelley. How do they carry that? Do they own it?

Mr. Reed. The Navy does. It was purchased out of ordnance ppropriations and was never in the naval supply account.

Mr. Kelley. Do you have that much material on hand?

Mr. Reed. Yes, sir.

Mr. Kelley. \$400,000,000 worth?

Mr. Reed. Yes. sir.

Mr. Kelley. What sort of material is it?

Admiral Potter. Admiral McVay is here and he can tell you.

Mr. Kelley. What sort of material is it, Admiral?

Admiral McVay. Guns, ammunition, torpedoes, and finished techical ordnance material.

Mr. Kelley. It is not raw material?

Admiral McVay. It is not the material you are talking about; it is nished technical ordnance material.

Mr. Kelley. Does this include your reserve stock of guns? Admiral McVay. Yes, and reserve stock of ammunition.

Mr. Kelley. And reserve stock of torpedoes?

Admiral McVay. Yes, sir.

Mr. Kelley. And any other material you might have on hand?

Admiral McVAY. Any technical ordnance material.

Mr. Byrnes. It includes everything except that which is on board ip!

Admiral McVay. Yes, sir.

Admiral Potter. The largest single item is reserve ammunition, 28,000,000.

Mr. Kelley. Are you selling surplus stock?

Admiral McVay. Not yet, sir.

Mr. Kelley. Have you any for sale?

Admiral McVay. Not at the present time, but we expect to ha

Mr. Kelley. How much did you sell last year, if any? Admiral McVay. I do not know how much we sold last year.

Mr. Kelley. Have you looked into this, Admiral Coontz, being Budget officer of the Navy, to see how much these stocks could be duced and the money turned into the Treasury?

duced and the money turned into the Treasury?

Admiral Coontz. I have paid particular attention to the manupply account, to the sale of ships, and everything of that characteristics.

as being the quickest to get rid of.

I have not gone into the question of the ordnance material, less I knew that most of that was manufactured, and it would be a l delicate to dispose of certain kinds of it after the treaty.

REDUCTION OF NAVAL SUPPLY ACCOUNT.

Mr. Kelley. What would be your recommendation about

naval supply account, Admiral?

Admiral Coontz. My recommendation is to reduce it to \$150,000 reducing it slowly but gradually to the best interests of the Governent. Whether that should be done by half and half I would to trust to the judgment of Admiral Potter, but I think it shoul slowly brought down to \$150,000,000, with its conversion into Tury cash.

Mr. Kelley. How much was it before the war?

Admiral Potter. About \$72,000,000 or \$73,000,000.

Mr. Kelley. Would not \$100,000,000 be all that you would for material? What would be the ratio between material and sonnel in the way of money?

Admiral Potter. I do not think I am prepared to say. We are at the \$150,000,000 roughly along these lines. The amount of chases of material from those appropriations, as shown by a num of years' past experience, has been from \$72,000,000 to \$75,000,000 year.

Mr. Kelley. This would give you two years? Admiral Porrer. That was our idea precisely.

Mr. Kelley. What is the principle running through the mind you officers, that you should have a two years' stock of everything

Admiral Potter. That is what we have now. Lately, in orde expend as little money as possible, make as few purchases as possible we have cut it down very much, and we do not make purchases more than a six months' supply on the east coast and a nine mon supply on the west coast.

Mr. Kelley. Do you know of any special reason why it should

be reduced another \$50,000,000 under what you suggest?

Admiral Coortz. Yes, sir. We went into it very deeply, and thought after the first crack that it could not be brought be \$150,000,000, and it ought to be brought down slowly. Within past year the Secretary has considered and directed—as has brought out here to-day—the depletion of war stocks right strivalong, and I should advise against making that figure at present than \$150,000,000. Later on we might.

Idmiral Porter. The time is not yet ripe.

Ir. Kelley. Would your recommendation coincide with Admiral tter's, that the reduction should be made only from the sale of

plus stock?

idmiral Coontz. That is the best way. The other way would be a certain percentage from the sales, but he does not believe we can ely do that, and I agree with his judgment. He ought to know how it can be done. It is a matter of experiment to bring it down as ekly as we can for the economic condition of the Government and he same time get all the money into the Treasury as quickly as can.

Ir. Kelley. Of course, his method would have this effect, that it ald take out the deadwood first and then you would know exactly at valuable stock to carry and have on hand?

dmiral Potter. That is the only stuff that the bureaus will draw,

irally.

Ir. Kelley. And after you knew that you could further reduce it? dmiral Coontz. You could see what your turnover of good stock

Ir. Kelley. Otherwise, if you reduced it from sales, you would ree it very quickly to \$150,000,000?

dmiral Coontz. Yes, sir.

Ir. Kelley. You will find of that \$150,000,000 quite a large perage of it was very much depreciated?

dmiral Coontz. Yes, sir.

dmiral Potter. I would let go any part of it in a minute that we not find we had need for. There is nothing for the Navy in hold-onto this stock—it is only a horrible nuisance.

CLOTHING AND SMALL STORES.

Ir. Kelley. The next item is on page 90, clothing and small stores, which you are not asking any money this year?

r. Reed. No, sir.

- r. Kelley. You simply want the same language that you had be-
- r. Reed. Yes, sir.

r. Kelley. How much of a supply of clothing have you?

- r. Reed. Since we have reduced the price the value of material on 1 is about \$37,000,000.
- r. Kelley. You do not need but three or four million dollars a

dmiral Potter. Three or four million dollars a year for issues, to away to newly enlisted men. But we sell about \$7,500,000 to end men. I think that could be reduced.

r. Kelley. To about \$5,000,000 altogether?

r. Reed. Yes, sir; the issues for next year.

r. Kelley. So you have clothing to last you for four or five years, ppose that is clothing that you can not sell?

dmiral Potter. We sell undershirts and the law lets us sell such gs as overcoats when we remove certain distinguishing devices, we sell quite a good deal of cloth.

r. Byrnes. What is the value of the stock you have on hand?

Admiral Potter. About \$37,000,000.

Mr. Byrnes. How many years will that supply you?

Admiral Potter. Of course, it depends on the number of men.

Mr. Byrnes. Assuming the Navy at 65,000 men for the purposes the figure.

Mr. Reed. Between four and five years' stock. Of course, in some

items we are overstocked and in others we are short.

Admiral Potter. I would estimate a little more than that.

Mr. Kelley. It would last longer than that, because they restok

Admiral Porter. Between seven and eight years.

Mr. Byrnes. You have to make purchases of certain sizes, but I suppose you have enough to last six or seven years?

Admiral Porter. Practically.

Mr. Byrnes. Is it an economical thing to do, to keep it instead of

selling it?

Admiral Potter. We sell quite a good deal, but it is our surplus that we will not use for many years. The great bulk is good.

Mr. Byrnes. And represents over \$6,600,000?

Admiral Potter. Yes, sir.

Mr. Byrnes. You estimate on using \$7.500,000 next year?

Admiral POTTER. Yes, sir.

Mr. Kelley. But you intend to replace that?

Mr. Reed. \$1,800,000 will be issued under the outfits of first elistment. Repurchases for replacement only will be made.

Mr. Kelley. The money will be held in the fund?

Mr. Reed. Yes, sir.

Mr. Byrnes. Under this item you have a stock of \$35,000,000, approximately.

Mr. Reed. Yes, sir.

Mr. Byrnes. And under the authority here given you will sell to the men clothing to the amount of \$7,500,000?

Mr. Reed. Yes, sir; about.

Mr. Byrnes. That is your estimate?

Mr. Reed. Yes, sir.

Mr. Byrnes. That amount of money paid to you by the men is not covered into the Treasury but by law is made available for expenditure by the department?

Mr. Reed. For the procurement of more clothing for further als

to men as needed.

Mr. Byrnes. When you purchase the clothing, you will then have

all the stock on hand?

Mr. Reed. If we bought as rapidly as we issued, the stock would remain at \$35,000,000.

Mr. Byrnes. How much do you estimate you will buy?

Admiral Potter. We probably will not buy \$5,000,000 worth.

Mr. Byrnes. The \$2,500,000—what becomes of that?

Admiral Potter. That will be in the Treasury to the credit of the Navy Department.

Mr. BYRNES. But in no case is there a reduction in this amount which permits any money to go back to the Treasury to the credit of miscellaneous receipts?

Mr. Reed. To this extent, that beginning with the fiscal year 1921 the appropriation bill carried a provision that outfits on first enlist

ent shall be issued to the men without reimbursement to the clothg fund. The bill before that carried an appropriation to pay for initial outfit of \$100, and during the fiscal year \$5,600,000 was ued as outfits to first-enlistment men for which we received no imbursement. During the first six months of this year, 1922, the arges so far reported for outfits on first enlistment have been about 00,000. There has been very little recruiting. There is \$600,000 clothing that has been issued for which we have obtained no rebursement.

Mr. Byrnes. It reduces it only to the extent that you authorized e issuance without requiring payment? Mr. Reed. Yes, sir; that is it.

Mr. Byrnes. But, as I understand, under this item you will get ıck over \$500,000?

Mr. Reed. If we issue that amount of clothing, it will be turned to the Treasury.

Mr. Byrnes. To the credit of this account?

Mr. REED. To the credit of the Navy.

Mr. OLIVER. In other words, it is a trust fund in the hands of the reasury subject to your draft for the replenishing of the stock? Mr. REED. Yes, sir.

Mr. Oliver. How much have you now to your credit on which you re authorized to draw in cash?

Mr. Reed. On the 30th of June, \$388,000 in cash. Last year we ad an overobligation on the fund of some millions of dollars, which just being taken care of in the recent deficiency bill.

Mr. Kelley. This fund could probably be reduced to some \$20,-

0.000 without doing any damage?

Mr. Reed. Yes, sir.

Mr. Kelley. And as you sell the surplus of clothing we can prole that the money from the sales shall go to the Treasury until this nd reaches \$20,000,000?

Admiral Potter. You would not want to do that, because we would t have any liquid capital in the Treasury to draw against.

Mr. Kelley. That is true; you would have to have some.

There is something like \$15,000,000 or \$20,000,000 which could be

Admiral Potter. Eventually.

Mr. Kelley. From this fund simply by giving you a little leeway

purchase odd articles that you do not carry in stock. Admiral Potter. Until I have had a chance to make necessary callations. I would prefer not to give an estimate of the percentage of es that might be turned into the Treasury.

Admiral COONTZ. This matter has been given careful thought by Secretary and his counsel, and all with the idea that as fast as we ald we would reduce it and get the money into the Treasury.

Mr. Kelley. Of course, you can not reduce it and get the money o the Treasury unless some provision is made for it? Admiral Coontz. Yes, sir.

IVILIAN EMPLOYEES IN BUREAU OF SUPPLIES AND ACCOUNTS IN WASHINGTON.

Mr. Kelley. Under maintenance, Bureau of Supplies and Acints, you have carried, as I recollect, provision for your force in ishington!

Mr. Reed. Yes, sir.

Mr. Kelley. The allotment office, the disbursing office, and the property accounting office!

Mr. Reed. Yes, sir.

Mr. Kelley. Those three aggregated \$538,340 on February 14!

Mr. Reed. Yes, sir.

Mr. Kelley. Can not we take that sum out of your maintenance for Supplies and Accounts and put it over in the part of the bill

which formerly was carried by the legislative bill?

Mr. Reed. There is absolutely no objection to that—the transfer That would mean a reduction under maintenance and of funds. corresponding increase under salaries, Bureau of Supplies and Accounts.

Mr. Kelley. What portion of the \$265,950 for the allotment office as now employed there will you need for this year?

Mr. Reed. \$163,350.

Mr. Kelley. What portion for the disbursing office?

Mr. Reed. \$141,790.

Mr. Kelley. How much for the property accounting office?

Mr. Reed. \$125,600 in lieu of the \$130,600.

Mr. Kelley. To be distributed according to the statement true mitted by the Secretary on the 14th of February?

Mr. Reed. Yes, sir.

Mr. Kelley. Are there any other employees in Washington paid from other appropriations?

Mr. Reed. Not in the Bureau of Supplies and Accounts or under

any of its appropriations.

STATUTORY EMPLOYEES, SALABIES OF.

Mr. Kelley. On page 94 the item "Salaries, Navy Department" is for the Bureau of Supplies and Accounts?

Mr. Reed. Yes, sir.

Mr. Kelley. You have indicated some changes in your statutor roll?

Mr. Reed. Yes, sir.

Mr. Kelley. The first item on the salary roll is the civilian # sistant for whom you are asking an increase of salary from & ... to \$3,250?

Mr. Reed. Yes, sir.

Mr. Kelley. The Committee on Appropriations is not increasing any salaries. Then, you are asking for an increase in a number of

positions and a decrease in others?

Mr. Reed. That is because we are carrying on our rolls at the present time one clerk at \$1,600, detailed to duty in the Secretary office. That position has been taken up on the rolls of the Secretary There is one of our clerks who is carried on the Secretary office. roll.

Mr. Kelley. There is one clerk on the Secretary's roll to be brought back!

Mr. Reed. Yes. sir.

Mr. Kelley. Just a swap?

Mr. Reed. Yes, sir; and to straighten out the appropriation under the present distribution.

Mr. Kelley. It is not an increase in the total number of employees? Mr. REED. No, sir.

Mr. Kelley. You propose to drop out 19?

Mr. Reed. Yes, sir; one of those is transferred to the Secretary's >11. The other 18 we propose to drop out—a reduction in the force om this year's appropriation.

Mr. Kelley. Then you ask for five assistant messengers instead

f four?

Mr. Reed. That is to provide for the pay on our roll of a messener now carried on the roll of the Secretary's office.

Mr. Kelley. That is another swap?

Mr. REED. Yes, sir.

TEMPORARY EMPLOYEES.

Mr. Kelley. For temporary employees in the Bureau of Supplies nd Accounts you are asking for \$245,520 and you have this year 250,000 ?

Mr. Reed. Yes, sir; we have made a decrease of \$18,000 on the atutory roll and a decrease of \$5,000 on the lump-sum roll, a total ecrease of \$23,000 in the appropriation from this year's authorizaon.

Mr. Kelley. How many clerks are carried on this temporary roll?

Mr. Reed. We have 170 at the present time.

Mr. Kelley. How about next year?

Mr. Reed. We have cut out \$23,000, and so our salary approprition will represent a decrease of over 10 per cent from what we had nis year.

Mr. Kelley. How many employees did you cut off?

Mr. Reed. We dropped 18 positions.

Mr. Byrnes. In this list you drop 11 positions and you are now

oing to drop 7 more?
Mr. Reed. The appropriation on the 1st of November was overbligated. On the 1st of November we had 188 positions at an anual compensation of \$260,000. We are making a decrease. ad more employees than we could carry throughout the year, so lat we are asking for 177 at \$245,000 as against 188 that we had the 1st of November. From the lump-sum appropriation we Top 11 that we had at that time and we drop 18 from the statutory 11.

Mr. Kelley. You will have to keep track of all the contract sus-

nsions and cancellations?

Admiral Potter. Yes, sir; and the settlements. The bureaus will ke more demands upon us. We give them more complete data om month to month and we expect to continue to do that. Our >rk will certainly increase, if anything.

Mr. Kelley. You have here in the limitation an increase evidently

salary, one at \$4,000 raised to \$5,000?

Mr. Reed. Yes, sir. The one at \$5,000 instead of \$4,000 is intended bring back on the bureau roll an employee now in the property counting office. So, if the salaries are combined as you suggest, it ould not involve an increase there.

Mr. Kelley. This particular employee is now getting this sum of

ney?

Mr. Reed. Yes, sir.

Mr. Kelley. It is only a transfer from one roll to another?

A unital Potter. That particular employee bears a weight of a sponsibility not borne by many people in the entire service.

Mr. Kelley, I do not think it would be amiss to ask the name of

that employee?

Admiral Potter, Mr. Clyde Reed, Mr. Kelley.

Mr. Reed. That represents a reduction from two to one, one being transferred to the Secretary's office, he being on detail there.

Mr. Brynes. There is no increase there?

Mr. Rego. No. sir: that is a decrease of one position in the Buran of Supplies and Accounts, and an increase of one in the Secretary's office.

Mr. Kelley. Who is this?

Mr. Reed. That is the chief of the appointment division, carried on our rolls at \$3,000.

Mr. Kelley. Hs is now carried on what roll?

Mr. Reed. On our roll. We are taking off one at \$3,000, and adding one at \$3,000 to the Secretary's office by transfer from the Bureau of Supplies and Accounts. We are now carrying him on the roll of the Bureau of Supplies and Accounts. He is the chief of the appointment division.

Mr. Kelley. You are transferring one to the Secretary's office.

and you are asking that the other be retained?

Mr. Reed. Yes. sír.

Mr. Brynes. There is one at \$2,500 and one at \$3,000, and each remains at the same salary?

Mr. REED. Yes, sir.

FREIGHT.

Mr. Kelley. The next item is freight.

Admiral Potter. The estimate for freight that appears here's \$5,000,000. Whether we can get through on that, is problematical We will, of course, make every effort to do so if you see fit to allow We went to work on this basis: We considered our past expenence and made a sort of mental allowance for skeletonizing the activities at all except a limited number of yards. Whether that a right, or not, remains to be seen. We then estimated that we would transport this year 280,000 tons of freight in all. Of that amount the west coast will go 200,000 tons and on the east coast we will carry 80,000 tons. Of the 200,000 tons that we anticipate being true ported to the other coast, we expect to carry 30,000 tons by Government conveyance. That is fairly accurate, based, of course, upon vessels that we are informed will likely be available. We exped to send by commercial water shipment to the west coast 135,00 tons, and by commercial rail shipment to the west coast 35,000 to The water movement to the west coast will average us, as next as we can hit an average on the different classes of material. 25 pm ton. That is to say, 135,000 tons by water movement, at \$25 per ton. will amount to \$3,375,000. The rail shipments will average \$13 per ton, and 35,000 tons by rail shipment to the west coast at \$43 pt ton will equal \$1,505,000.

Some of the 80,000 tons that we expect to transfer along to Atlantic coast will be by water and some by rail. It is very differ to give an accurate average there, because that depends upon circustances. We have arrived at a mixed rate, for want of a better work of \$8 per ton, making \$640,000. The total for all that, if it shows work out in the way we have estimated, would be \$5,520,000.

Mr. Kelley. And you make your estimate \$5,000,000, in round umbers?

Admiral Potter. Yes, sir.

Mr. Kelley. How much do you have this year?

Admiral Potter. This year we have had altogether, counting what u allowed us the other day, \$5,600,000. It was first \$4,000,000, and asked \$2,000,000 more. You allowed us \$1,600,000 more, or \$5,-**0.000** in all, for 1922.

Mr. Kelley. The freight next year might be more or less, dependg upon how you gathered your stuff together after you have **ra**pped it.

Admiral Potter. That is an important feature.

Mr. Kelley. You did not try to work it out upon the basis I sug-

·sted the other day?

Admiral Potter. We gave earnest consideration to that. ought that the proper thing to do for this year would be in the case purchases east of the Mississippi River, to purchase f. o. b. devered, and for purchases west of the Mississippi, where there is so uch of land-grant railroad rates, to purchase f. o. b. the point of igin. unless for some special reason it should be purchased other-Then, of course, the bill of lading would apply from point of igin. We thought that would probably be the best way. I talked ith the chairman of the Federal Traffic Board, who is an officer of Le Supply Corps of the Navy, appointed by Director of the Bureau the Budget, and he is very strong for making purchases f. o. b. oint of origin for shipments west of the Mississippi in order to take Ivantage of the land-grant rates. There will be a very substantial lying on account of the land-grant rates, and he is very strong for

Mr. Kelley. That would make a perfectly clear line of demarka-

on, so that you could figure it with some accuracy.

Admiral Potter. Yes, sir. It is hoped that eventually there will ≥ a general freight appropriation for each department—not for all

epartments, but for each department.

Mr. Kelley. The fact is that if you included in your cost the eight on any article, this sum could be made almost any sum—that , down to the actual amount necessary to pay the freight on Govmment property transferred from one place to another.

Admiral Potter. I do not understand that.

Mr. Kelley. Let us get at it this way: When you buy any propty for the Government, whether food or any other supplies, and ke your contract with the price at the point where you want it livered, in all such cases you include the freight in your cost? Admiral Potter. Yes, sir.

Mr. Kelley. Now, if you made all of your contracts that way, sonly freight provision you would need would be sufficient money pay the freight on property owned by the Government that had be transferred from one place to another?

Admiral Potter. Yes, sir.

Mr. Kelley. You propose to put that system into effect east of Mississippi River but not west of the Mississippi River? Admiral Potter. Yes, sir.

Mr. Kelley. It will make a rule upon which you can make your imate for freight in the future.

Admiral Porter. Yes, sir; if you will allow me, I will put in the hearing a lot of details of the rates on different classes of material Mr. Reed. It justifies the figures of \$25 and \$43 that we gave you Mr. Kelley. You may insert that in the record. (The matter referred to follows:)

All-water transportation rates.

	4.00 1.20 2.00 1.20 3.00	Previous Sound from New York or Northia
Copper, brass bars. Waste (co*ton).	\$2.10	\$2.16 1.4 ³
Explosives (high)	4.00	4.0
Wire rope Fuel oil	.; 2.00	1.39 2.99
Paint. Hardware.	.: 1.20 .: 3.00	1 5
Average commercial rate	2. 10 . 00933	19

The Navy would be entitled to a reduction of 10 per cent from this rate 4 freight other than that entitled to the \$1.25 rate moving on Government bills of lading.

The average cost per ton per mile for this traffic would be: To Mare Island

\$0.00831; to Puget Sound, \$0.00537.

The majority of the intercoastal steamship lines have published a blank rate of \$1.25 per 100 pounds, minimum charge of \$2.50, per shipment on Government. ernment supplies, Navy, certain specific articles being excepted from this nu

The average cost per ton per mile for this traffic would be: To Mare Island \$0.00555; to Puget Sound, \$0.00359.

DAVID POTTER. Paymaster General of the Naty.

Average rates, all rail and all water.

	Mare Island, from New York or Norfolk.	Paget Sound, from New York or Northit
ALL RAIL. Canned vegetables. Structural iron and steel. Rope. Machinery Guns and parts Clothing. Airplanes and parts. Copper, brass, bars. Waste (cotton). Explosives (high). Wire rope. Fuel oil Paint Hardware.	1. 915 1. 915 3. 28 3. 245 6. 245 3. 305 2. 245 6. 245 1. 915 1. 805 1. 915	11 (1) 1 (1)
Average commedity rate	3, 33 . 01902 2, 50 . 01439	1.5 .00 1.5 .03
Canned vegetables. Structural iron and steel. Rope. Machinery Guns and parts. Clothing. Airplanes and parts.	1.00 1.20 2.00 2.50	10 10 13 18 13 40

Statement of cost per ton per mile for transporting freight, rates be the first-class rate between the points named:	ing based
chison, Kans., to Rocky Ford, Colo., 565 miles:	
Commercial rate	Q1 AA
Cost per ton per mile	. 05097
Government rate	. 84
Cost per ton per mile	. 02973
ivenworth, Kans., to Fort Lyon, Colo., 542 miles:	. 02013
Commercial rate	1, 945
Cost per ton per mile	. 07177
Government rate	1. 235
Cost per ton per mile	. 04557
n Francisco, Calif., to Ashland, Oreg., 430 miles:	. (72001
Commercial rate	2.05
Cost per ton per mile	
Government rate	. 51
Cost per ton per mile	. 02372
w York, N. Y., to Raleigh, N. C., 500 miles:	
Rate	1.60
Per ton per mile	. 0640
(No land grant involved.)	
ston, Mass., to Richmond, Va., 575 miles:	
Rate	. 95
Per ton per mile	. 03304
iffalo, N. Y., to Charleston, W. Va., 510 miles:	
Rate	1.085
Per ton per mile	
DAVID POTT	ER,

DAVID POTTER,
Paymaster General of the Navy.

Mr. Kelley. If we should make this a smaller sum than was reured in practical operation, what you would do would be to pay ur freight out of the other appropriation?

Admiral Potter. There would be no other alternative. And in at case you might force us to pay what might be an uneconomical

e for the Government.

Mr. Kelley. If you made a contract for the delivery of a carload beef f. o. b. Chicago, would you be authorized under the law to trge up to the cost of that beef the freight from Chicago to Hamp-Roads?

Admiral Potter. No, sir; we could not do that.

Ir. Kelley. You could not charge it up to the cost of the beef figure it in the ration?

Admiral Potter. No. sir.

Ir. Kelley. Why should you not be authorized to do that? If a can make a contract for a price with the commodity to be delived at Hampton Roads, the price including the freight, why could a not make the contract for delivery f. o. b. Chicago and pay the ight out of that same fund?

Ir. Reed. That is because the wording of the appropriation for ight covers all freight and express charges pertaining to the Navy partment, and under the rules of construction that are properly plied to appropriations if there is a specific appropriation made a particular purpose you can not then use a general approprian, which, in the absence of a specific appropriation, might be atlable.

Mr. Kelley. It would force you to change the form of your conct so as to provide for a price to be fixed on the basis of delivery?

Mr. Reed. Yes, sir; unless there was some modification of the existing law. We might purchase goods f. o. b. the mill, but if we had no money to pay the transportation charges out of freight we would have to make a contract providing for the delivery of the goods.

Mr. Byrnes. You would have the contract amended so as to pro-

vide for the delivery of the material where you wanted it.

Mr. Reed. The Government, however, might lose money there a

account of land-grant rates.

Mr. Kelley. But there need never be a deficiency in freight so long as we make an appropriation large enough to pay the freight on commodities already in the possession of the Government that are to be shipped from one point to another.

Admiral Potter. That is sound in theory; yes, sir.

Mr. Kelley. I think you are to be congratulated on not straining the situation at all and for simply taking the law as it stands although there is no difference in the end, unless it be in the case of the land-grant rates. How do you check up freight bills?

Admiral Potter. By order of the present Secretary of the Navall freight movements now must first be referred to the Bureau of Supplies and Accounts before they are made, except medical shipments and emergency shipments of provisions. They come in to an and the actual classification and routing are written into it. This procedure in itself prevents the railroads from routing improper and from making improper classifications. What I have just an applies to shipments of two carload lots or more. If a shipment is only one carload lot it goes through without ceremony.

Mr. Kelley. Do you pay freight bills prior to the Government

audit!

Admiral Potter. We pay them prior to the General Accounting Office audit, but we give them an administrative audit ourselves. We pay no freight bills in the field. They are sent in to Washington. and we make the claim that we have as expert a group of railred bill auditors as exists, and the Bureau of the Budget has been kind enough to say the same thing about it. We pay bills, but we pay to bills that are in dispute. If there is any point in the bill of a ril road department that is disputed either by the railroad or by our selves we strike that out and they have to submit two new bilk Then we pay the bill which we agree is correct and send the other over to the General Accounting Office. I understand that some other departments of the Government, if there is anything contentious ! a bill, refuse payment of the whole bill, and then send it to the Gaeral Accounting Office. Of course, that gives rise to some protest on the part of the railroads, because that means the postponement of settlement for six months or a year.

Commander C. G. Mayo, of the Supply Corps of the Navy, is chair man of the Federal Traffic Board. He was so appointed by the President after General Dawes, the Director of the Budget, had gon through the different departments and had observed that the mode efficient payment method was the one then existing in the Navy Partment. Since the last week in November they have referred all over two-carload lot shipments to office I refer to. As a result that office has directed the routing and classification. That office has classified and routed up to this time something like 20,000 shipments.

ents and they have prevented the overexpenditure of more than 00,000. The anticipated prevention of overpayments will be more

an \$1,000,000 this year.

Mr. Kelley. When you get your bills in your own accounting fice, provisionally at least, that office approves them, and you pay em on that audit?

Admiral Potter. Yes: we approve, disapprove, or modify, and

en pav.

Mr. Kelley. Then when they are paid by you, the bills go to the eneral Accounting Office?

Admiral Potter. That is correct.

Mr. Kelley. And that office may disapprove something which you ave paid?

Admiral Potter. Yes, sir.

Mr. Kelley. How often does that occur?

Admiral Potter. It very seldom occurs with us. During the st six months the total amount disapproved by the General Acounting Office has been only \$600. On the other hand, we have commended corrections in amounts allowed by the General Acounting Office of about \$2,500. Of course, there is no money lost an inadvertent payment should be made, because it is easily reverable from a railroad which is doing a going business; we simply ithhold it from the next bill.

Mr. Kelley. Suppose the bills were passed through your office to e General Accounting Office without payment by you at all and ev audited them, would that do away with some 50 or 60 clerks your department?

Admiral Potter. I do not know about the exact figures.

Mr. Kelley. If you did away with them there, would it require

addition of others in the other office?

Admiral Potter. I assume it would, decidedly. I do not know at that number, 58, specifically applies to our railroad bills settleent section. However, that is an office which must continue anyway, cause a large part of all the money spent for the Navy is paid it of this office, called the Navy disbursing office, and that office ould have to run. I would like to verify your estimate of the imber of clerks employed in the freight and passenger sections of ${f r}$ disbursing office.

Mr. Kelley. No doubt you are following the statute now?

Admiral Potter. Absolutely.

Mr. Kelley. Which provides that before these bills are paid you all make an audit?

Admiral Potter. Yes, sir.

Mr. Kelley. And satisfy yourselves as to their correctness?

Admiral Potter. Yes, sir.

Mr. Kelley. But occasionally there would be some bills that the eneral Accounting Office would return to you with instructions to ·llect some of the money that has been paid?

Admiral Potter. That happens, but I do not remember any speci-

fally at this time.

Mr. Kelley. It does seem as though bills were gone over twice in ris way, audited once by your office and then audited by the eneral Accounting Office, and that one might be eliminated.

Admiral Potter. There is a point in that theory, however, which is erroneous, namely, that the Accounting Office, of course, should not pay bills and then be its own auditors. They should not be disbursers of money and at the same time be their own auditors That is certainly an erroneous principle if it be followed. If ther have an office which pays bills they cease, properly speaking, to be an accounting office, but they are no doubt within the law.

The principle of a completed examination of an account prior to payment by a disbursing officer of the Government, and the find audit of the Navy disbursing officer's payment by an accounting office other than the one with which the disbursing officer is connected, has been accepted and has been in operation since the establishment of the Government, and this principle should apply with as much force to one class of accounts as to another. The contention that owing to the difficulty in checking transportation accounts, it would be advisable to eliminate the Navy disbursing officer's examination is believed to be poorly founded. On the contrary, the proper view is that the more difficult the account, the more likelihood of error therein and the more reason for adhering to the principle used in connection with other accounts.

Records are available which show that the principle of an audit by the Navy disbursing officer prior to the payment of the transports tion account has resulted in some saving to the Government by the Navy Department. In some cases additional amounts have been paid by the Treasury to carriers over and above the amount paid by the disbursing officer of the Navy when the final audit was made The Navy disbursing officer upon receiving information as to this additional allowance, and having knowledge of certain administrative features surrounding the original payment, has been able to effect refunds from the carriers. If he were deprived of the opportunity of making a verification of the amounts payable, the administrative departments of the Government would be in no position to know whether the amounts paid and chargeable to their appropriations were just. The administrative departments of the Government are primarily charged with accurate disbursement of appropriations. and it is not deemed proper that exceptions should be made in the matter of transportation accounts. Government transportation counts should be checked in their entirety before payment, and the General Accounting Office should make a complete audit of the transactions; this final audit after payment would entail no delay in the payment of the accounts and carriers would thus have no care for complaint.

The highly technical duties involved in the checking of trans portation accounts, particularly Government accounts which involve land-grant features, as conducted in the Navy disbursing office, quite similar in principle to the method used by transportation companies. With such companies it is the universal practice for desination agents to make careful check of transportation bills before requiring payment from consignees, after which the bills are true mitted to the carriers' general accounting office, where an independent ent check from an entirely different file of tariffs is effected. The double check of rates on the carriers part obviates innumerable

overcharges and precludes a large number of claims.

The information derived by the Navy disbursing officer in the exnination of transportation accounts prior to payment is invaluable connection with the economical operation of the Bureau of Supies and Accounts of the Navy. The data is absolutely essential connection with purchases bought on f. o. b. point of manufacture isis, and in connection with sales of salvaged and other materials ld on f. o. b. point of manufacture basis. If this force of clerks ere not available for determining this information, the purchase officer would be in no position to properly award contracts, beguithout accurate information on which to base estimates in restrd to amount of freight charges, which is a factor in determining ue costs. This is especially true in connection with purchases that e made in the field, the field activities having no rate clerks and e information in connection with freight charges must be obtained om the Bureau of Supplies and Accounts in Washington.

There is serious objection to the principle of any disbursing ofzers' examination and the final audit being confined to one office, en if made by two separate persons prior to final settlement. here is liable to be uniformity of action which would be prejudicial

efficiency and an unbiased audit.

For the reasons I have given and in view of the further fact that is understood that the entire question of Government accounting now being closely studied by a board appointed under the orders the Director of the Bureau of the Budget, it is urgently recomended that no change in the present method of payment and diting of transportation accounts be taken until the final recomendations of said board are in the hands of the Government.

Mr. Reed. Up until a few years ago transportation bills in which re involved land-grant deductions were all referred to the proper ditor's office and the rate board in the Treasury Department settled ose and they were paid on Treasury warrants, but that was anged some years ago and the Navy was requested to put in facilist for paying land-grant bills.

Admiral Potter. I do not yearn to hold this section of the office, matters would certainly not be expedited as much as we expedite

m.

The number of employees in the Navy disbursing office engaged on the actual audit of vouchers of transportation companies for

rying passengers and freight at the present time is 23.

Even if the General Accounting Office took over this work a numof clerks would still be required in this section of the Navy dissing office for necessary administrative work, checking up the vices rendered, which services must be certified by an administrae officer before payment can be made; checking up loss and damon shipments of Government material; issuing transportation I passing upon claims for the transportation of dependents of cers and enlisted men and their household goods upon a change station; checking rates under travel expense claims, and furnishinformation to the purchase division as to freight rates for conaplative purchases.

As to the correctness of the audit now made by the rate experts in

Navy disbursing office, the following is of interest:

During the period from September 1, 1920, to June 30, 1921. General Accounting Office suspended in the accounts of the N disbursing officer as possible overpayments on account of passe transportation the sum of \$599.44, but of this amount it was dec that \$311.11 had been properly paid, so that the total overpaym which are being collected from the railroads amount to \$25 During the same period on supplemental bills as to the correctne which the Navy disbursing officer was in doubt and which were cordingly referred to the General Accounting Office for settler payments amounting to \$2.546.57 were allowed by the accoun office and subsequently, upon representations from the Navy bursing officer, were admitted to be overpayments and the Navy bursing officer was requested to take the necessary steps to col from the railroad companies the overpayments made to the tr portation companies by the accounting officers in that amount.

Mr. Kelley. Mr. Secretary, will you give this a little atten and see whether or not there may be some duplication here w might possibly be avoided between your accounting office and General Accounting Office. It is a matter of administration sometimes when your attention is specifically called to matter

this kind a beneficial change might result.

Secretary Denby. In connection with that freight, I want to whether I understood correctly; if I did not I would like to be rected, and if I did I think you should again give attention other items in the bill. If you are going to cut the freight of the theory that articles can be bought f. o. b. some points-

Mr. Kelley (interposing). I did not have that in mind, but I thinking of the deficiency situation. We did allow him a defici-

this year.

Secretary Denby. That would not have any bearing on it. other words, if you make an allowance for the articles at cost. then pay the freight on them out of one fund and that fun exhausted you would still be as much up a tree; you could not them and you could not get them at all if the funds to pay for articles were exhausted. If you add the freight to the cost whatever figures were considered as the cost ought to be added Mr. Kelley. That is what I had in mind, and in most cas suppose you do add the cost?

Admiral Potter. It goes right in if it is purchased for deli

right at the vard.

Mr. Kelley. And you buy food in that way? Admiral Potter. Yes, sir.

Mr. Kelley. So that the ration would not be affected.

Secretary Denby. You buy f. o. b. where?

Admiral Potter. Point of delivery.

Mr. Reed. At the navy yard?

Secretary Denby. It is already bought that way?

Mr. Reed. Yes, sir.

Secretary Deney. Then freight is not a separate item? Admiral Potter. No. sir: not if the provisions are purch

f. o. b. point of delivery, but West of the Mississippi there are reductions on account of land-grant railroads—sometimes a # cent reduction.

Mr. Reed. From Ashland, Oreg., to Vallejo it is about 90 per cent. Mr. Kelley. And there it is cheaper to buy at point of manufacture because you pay the freight?

Admiral Potter. In that case, we pay the freight direct from this

propriation of freight, Supplies and Accounts.

Tuesday, March 21, 1922.

3E OF NEWPORT, R. I., INSTEAD OF HAMPTON ROADS, VA., FOR TRAINING MEN.

CATEMENT OF HON. CLARK BURDICK, A REPRESENTATIVE IN IN CONGRESS FROM THE STATE OF RHODE ISLAND.

Mr. Kelley. Mr. Burdick, a Member of the House from the State f Rhode Island, is present, and we will be glad to have him make by statement for the record that he desires.

Mr. Burdick. Mr. Chairman, you know, of course, that the trainig station at Newport, R. I., is the first permanent training station n the Atlantic coast. It has permanent buildings, and boys have een trained for the Navy there right along up to within a year. ow they have taken them away from us and have been training nem down at Hampton Roads. Hampton Roads is a war baby that as established in 1915 or 1916 and has been occupied ever since. As understand the situation, it has temporarily constructed barracks nd buildings. They have been in use for 5, 6, or 7 years now, and seems to me that within a very short time they will have to be Now, I would not complain at all if we were going to equire a large number of boys trained, but I understand that the ersonnel of the Navy will be cut down considerably. It seems to me hat we have two factories—one a large plant down at Hampton loads and the other a small plant at Newport, but the small plant t Newport is quite sufficient to turn out what we need, or pretty early all that we will need.

We can train down at Newport 10,000 boys per year. We can ecommodate 2,500 there, and they have three-month periods, so lat we could turn out 10,000. We can train those 10,000 down there a cost of \$200,000. In the Budget there is a suggested appropriation of \$75,000 for the upkeep of that training station while not in e. Therefore it seems to me that if this committee should give us 25,000 more we could train all the boys for the Navy or all the tys that the Navy is going to need on the Atlantic coast. We find at about 40 per cent of the boys that go into the Navy come from e New England States, New York, Pennsylvania, and New Jersey. Tking the year 1921 as the basis, we find that about 40 per cent the entire collisted force of the Navy comes from those States.

Now, this matter has been before the Naval Affairs Committee of Senate and they have requested the Secretary to submit figures. It has submitted two sets of figures, and I think the Secretary has committed a third set. The last figure he submitted was on the 7th of March, in which he shows that in the year 1921 it cost \$753,000

to run the training station at Hampton Roads, as against \$4 to run the naval training station at Newport. That, of courcludes the regular appropriation plus the allotments from the ent bureaus.

Mr. Kelley. Let me interrupt you there in order that we have the information in the record. Was that based upon the

number of boys in training?

Mr. Burdick. No. sir: they trained a total of 12,000 bu Hampton Roads and 7,000 at Newport. Those figures were up with the idea of ascertaining how much it cost per man: different training stations, and the Secretary figured out, a department figured out, that it cost \$4.15 per man at Han Roads and \$4.71 per man at Newport, but the Secretary is on r as saying before the Naval Affairs Committee that quite a nu of the items that are charged up against Newport are not inc in those charged up against Hampton Roads. That explains the that Hampton Roads apparently has a smaller cost. Being a base, of course, they get heat, light, and power from the base that is apportioned. Now, if you are going to appropriat amount suggested by the Budget, or \$365,000, that, of course be for the training of men; but, in addition to that, you have; add, according to the figures from the department, about \$30 to cover heat, light, water, and so forth, that they get from the Therefore, it seems to me that in cutting down the Navy and he a reduction in the number of apprentice seamen that you will out it would be economy to train them at Newport. mandant there is on record as saving that for \$200,000 he will out 10,000 boys, and you can not run that big plant down the Hampton Roads for less than six or seven hundred thousand do even with that limited number of boys.

I do not think it is a fair comparison to take the cost per although the figures as given to me by the training station that it costs about \$42 per man to turn them out at Newpor against \$54 per man at Hampton Roads. The Secretary fi that it costs about 865 per man at Newport, but the trouble those figures as a basis for comparison is that quite a large nu of charges against Newport arise from the fact that the mandant of the training station happens to be the senior rat officer of the district, and therefore all the money goes through We have, of course, a coaling station and other activities, inclu the War College there. We have down there a fine plant. buildings are fine buildings and they are now in perfect order. course, we also have Coddington Point, which is additional. was a war measure and it was never occupied except for two or t months. I understood that it was the policy of Congress to ge of that. The city paid at least one-half or two-third of the of that land. We have a good plant with permanent buildings! enough to turn out all that you need with a Navy of 65,000 men

Mr. OLIVER. You spoke of the buildings. How much has the ernment spent on them in the way of repairs during the past Mr. Burdick. I do not know, but something like \$50,000, I UMr. Kelley. We are very much obliged to you for your state.

NAVY DEPARTMENT, BUREAU OF CONSTRUCTION AND REPAIR, Washington, D. C., March 17, 1922.

- t: Number and class of vessels in the Navy on July 1, 1916, etc.
- : Mr. Madden: As requested in yours of March 14, 1922, I forward hereabular statement showing number and class of vessels in the Navy on 1916, etc.

ur system of classification was changed in 1920, I have reclassified our ssels to agree with the present system so that comparisons can be direct. under construction are not included, and of district craft only those on the Navy list in the Navy Directory are included. Very respectfully,

D. W. TAYLOR, Rear Admiral, Chief Constructor of the Navy, Chief of Bureau. MARTIN B. MADDEN, Touse of Representatives, Washington, D. C.

8.—List of vessels in the United States as of July 1, 1916, and March 1, 1922.

Туре.	Vessels in the Navy July 1, 1916.	Vessels added since July 1, 1916, under authorization prior to that date	under	Vessels embraced by (1), (2), and (2a), stricken from Navy list (to Mar. 1, 1922).	Vessels on Navy list Mar. 1, 1922, after adding (2) and (2a) to (1) and deduct- ing (3).	Vessels added to Navy under soparate and special authorization since Aug. 29, 1916 (to Mar. 1, 1922).	Vessels em- braced by (5) strick- en from the Navy list (to Mar. 1, 1922).	Vessels em- braced by (5) on Navy list Mar. 1, 1922.	Vessels em- braced by (4) and (7).
econd line sers urriers soats sers elayers sers sers sers sers sers sers sers	36. 7 16 19 0 0 0 34 47 0 38 0 0 8 0 0 38 14 20 8 47 0 1 4 4 21	6 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 38 8 0 0 0 0 0 0 0 0	9 7 7 5 7 7 0 0 0 3 3 4 4 1 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34 0 11 12 0 0 0 82 0 94 3 3 8 0 0 0 10 8 2 20 10 18 20 10 13 13 13 13 13 13 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	0 0 0 0 0 1 4 0 219 14 6 0 212 60 341 0 0 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 4 4 0 219 14 6 0 12 154 6 0 0 0 10 11 19 22 24 24 4 4 4 4 4 4 4 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	34 0 111 12 1 1 0 301 100 54 10 8 8 8 30 29 40 46 4 4 4 4 9 9
	352	38	86	164	332	782	286	479	828
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oft: tugs tugs ance boats stiled	(f) (f) (f) (f) (f) (f)	(*) (*) (*) (*) (*)	33333	(*) (*) (*) (*) (*)	(*) (*) (*) (*) (*)	40 13 0 3 0	14 0 0	26 13	26 13 48 3 13

yers transferred to status of light mine layers, d by purchase or transfer, essels transferred from some classified status, s not organized in 1916.

NAVY DEPARTMENT. Washington, March 22, 1922.

My Dear Mr. Kelley: In response to your personal request, I take pleasure in forwarding hewith a statement showing the civilian personnel at the various shore activities under the Naval Establishment as of date January 31, 1922. Sincerely yours,

T. Roosevelt.
Assistant Secretary of the Nary.

Hon. Patrick H. Kelley,
Appropriations Committee, House of Representatives.

Laborers; mechan-les; Croups Groups II. II. pland III.	- 100 100 100 100 100 100 100 100 100 10	208 208 1,156 1,966 1,966 1,56
Clerical, drafting, tech- nical, etc.	283 724 671 704 130 130 403 130 403	4855 45 868
Miscella- neous.	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 228
Schedule of wages, Group III (arti- sans).	1,060 1,275 2,284 2,074 3,408 1,338 4,11 2,284 1,512	\$£ 88 88 88 88 88
Schedule of wages, of vuppers), appren- tices).	602 512 963 1,760 1,775 213 1,244 1,244	25 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Schedule of wages, Group I (labor- ers).	¥2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	42 48882 53
Planning and eati- and esti- group.	78 88°°4	
Superin- tendents shop en ployees.	**************************************	~~ 45383 42
Police.	. 35 2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	44 400
Messen-	28824238°	80-1 925 44 45L
Clerical.	424428344 44444	23°22248
Drafting.	522333358 525333355	i 888 °
Tech- nical.	~244522 ~23	23 23 Station, Newport, R. I.
Naval Establishment.	Navy yards: Portsmouth, N. H. Bordon, Mass V. Brooklyn, N. Y. Philadelphia, Pa. Washington, D. C. Norfolk, Va. Charleston, B. C. Mare Island, Calif. Puget Sound, Wash	Newport, R. I. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

TABLE 9...-Recapitulation of Monthly reports of forces employed in the Naval Establishment as of date January 31, 1922—Continued.

				-				,				To	Total.
Naval Establishment.	Tech nical.	Drafting. Clerical.	Clerical.	Кезеп-	Police.	Superin- tendenta shop em- ployees.	Planning and esti- mating group.	Schedule of wages, Group I (Ibor- ers).	Schedule of wages Group II (helpers), appren- tices).	Schedule of wages, (froup III (arti. sans).	Miscella- neous.	Cherical, drafting, r tech- nical, etc.	Inaborers; mechan- ics; (froups I, II, and ming and esti- making group; superin- tendents superin- tendents shop em- ployees; and mis- cella- neous.
Naval training stations: Newport, R. I	7	8	31	-		6		8	19	. 2		88	159
Hampton Roads, Va.* Great Lakes, III. San Francisco, Calif	63	40	8 6			91		4-	8	85 gs		20	215
Naval torpedo stations: Newport, R. I Advandria, Va Kavnort, Wash	ю-c	21	820	₹.	₩ 60	87.78		84-	311	1,063 339 35		211 28 3	1, 88, 7,
omarine basas: London, Conn	·	. 8	' ន	67	•) (q		. 23	2	8 83		27	2 19
Squantum, mass. Astoria, Oreg Coco Solo, Canal Zone		8	-						60	- 8		80	7 8
Naval air stations: Rockaway, Long Island, N. Y.													
ape May, N. J. Archurst, N. J. Inscostis, D. C.	22	60	91		•	9		-3	-8-	3 -		-42	- 51 - 62 - 71
Hampton Roads, Va.*. Penacola, Fla. Ran Diezo, Calif	70	ea	Z.\$	60	•	8-	F9 :	121	ğa	ត្តនះ		¥ \$	

3.08	- 00	Civilian force discontinued December, 1921.	ar, 1921.	December spot, Sout	ontinued supply d	Civilian force discontinued December, 1921 Included in navy supply depot, South Bri	Neillen inchude	## ¥#		¥ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Table 9.—Recapitulation of monthly reports of forces employed in the Naval Establishment as of date January 31, 1922—Continued.

Total.	Laborers; mechan-los; Groups (T. I., and III., plan-ning and estit mating group; supering sup	888	9520	1, 063 61 813 990	806 170	= 28	a
To	Clerical, drafting, lech- nical, etc.	16	27.5	270 9 337 99	583	13	\$
	Miscella- neous.	1525	219	8	e		
	Schedule of wages, Group III (arti- sans).	32	0 61	46 8 8 8 151	284 56	99	13
	Schedule of wages, froup II (helpers), appren- tices).	8	9	417 7 101 340	49	7	•
	Schedule of wages Group I (lborers).	11.3	1	121 15 314 314 259	452 115	e g	4
	Planning and esti- group.			G.			
	Superin- thendents thon em- ployees.		1	8083			
	Police.	1	•	8172	M 1-	64	
	Mossen- ger		e9	4 4	II		- 8
	Drafting. Clerical.	14	16	152 7 240 62	236	134	45
	Drafting.		69	8 84	881-	1	
	Tech-nical.	1	9	88	61469		
	Naval Establishment.	Naval hospitals—Continued. Mare Island, Calif. Puget Sound, Wash	Canacao, P. I. Naval War College, Newport, R. I. Naval training camp, Pelham Bay, N. Y.	Marine basin, Brooklyn, N. Y. Naval aircraft factory, navy yard, Philadelphia, Pa Naval Home, Philadelphia, Pa Naval Home, Philadelphia, Pa "val Ace" my, Annapolis, Md. ig ground, Indianhead, Md.	al School, Washington, D. C. Naval experimental and research lavora- tory, Bellevin, D. C. Naval operating base, Hampton Roads, Va. Navy mine depot, Yorktown, Va.	Helium production plant, Forth Worth, Tex. Navul base, San Diego, Calif.	

communication offices:

i, 2

• No civilian employees.
Tincinded in naval operating base, Hampton Roads,

TABLE 9.--Recapitulation of monthly reports of forces employed in the Naval Establishment as of date January 31, 1922—Continued.

	Laborers; mechan- ics; (Trougs I, II, and III, plan- ming and osti- mathing group; group; group; phoyees; and mis- cella- neous.		-	-			
Total.	Clerical, min control of the control	61		60	01 00 14 00	∞ 34	orgr:
	Miscella- C noous.		-				
	Schedulc of wages, (Group III (arti- sans).		<u>.</u> .	-			
	Schedule of wages, (Troup II (helpers), appren- tices).						
	Planning Schedule and esti. Group I Group I group. ers).						
	Superin- tendents shop em- ployees.						
	Police.			<u> </u>			
	Messen- ger.		_				
	Drafting. Clerical.	~0					## ## ## ## ## ## ## ## ## ## ## ## ##
-	• Dafting	6.7			nnn-	n-a	
	Tech- nical.					•	
	Naval Establishment.	Superintending constructor, U. S. Navy- Continued. Newport News, Va. San Francisco, Calif.	Tacoma, Wash.	Navy, Cleveland, Ohio .		Superior ing constructors of alreadt, U.S. Navy: Buffalo, N. Y. Akrom, Ohlo. Inspectors of engineering material, U. B.	Navy Bonton, Nave Hartford, Com Navy York, N. Y Hotsmontad, N. Y Frittederstein, V.

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TABLE 9.- Recapitulation of Monthly reports of forces employed in the Naval Establishment as of date January 31, 1922—Continued.

Total.	Laborars; mechan- ics; (droups I, II, and il III, plan- ning and exti- mating group; superin- tendents shop em- ployees; and mis- cella- neous.			575	121	3
ğ	Clerical, drafting, tech- nical, etc.	: E-3	21 16 16	19	* æ**	0 · 0
	Miscella- neous.				8	
	Schedule of wages, Group III Ratti- Ralis).			203	52	â
				19	9	-
	Schedule of wages, Group I Glubr- ers).				13	5
	Planning group. group.					
-	Superin- tendenta shop em- ployces.				69	x
	Police.			2		
	Мечесп- ger.				-	
	Clerical.	8-1-21	822		. S.e.	n= -
	Drafting.					
	Tech- nical.			ю.	**	
	Naval Establishment.		San Francisco, Calif. (Union Iron Works) Works) Marine Barnachas, Cavite, P. I. Marine Barnachas, Cavite, P. I. And Ratine Barnachas, Cavite, P. I.	Depot of supplies, U. S. M. C., Philadelphia, I's. Assistant paymenter, U. S. M. C., Philadelphia, P.	Bendquarters, U. S. M. C., Washing- ton, D. C. C., Washing- tent bearests, Quantico, Va. II.	6. B. C. C. At.

10 With Union fron Works.

11 The number of employees at this establishment is estimated, as reports for the period under consideration have not as yet been received.

NOTE.—The limitation under the various appropriations for pay of technical, drafting, clerical, messenger, and police forces does not provide for the pay of employees in the ratings shown below under the appropriations indicated. Maintenance, Bureau of Supplies and Accounta-Policemen, cost accountants, labor and material checkers, and certain storehouse remployees. Ordinance and Ordinance Stores—Superintendents and certain other employees possessing special ordinance qualifications. Maintenance, Bureau of Yards and Docks.—Policemen. Construction and Repair of Vessels—Policemen.

Employees in the codumns headed "Superintendents and estimating and estimating groups," "Schedule of wages, Group I (laborers)," "Schedule of wages, Group III (artisans)," and "Miscellancous" are not paid from the limitations specified above under any appropriation.

PERSONNEL OF THE NAVY.

STATEMENT OF HON. W. S. VARE, A REPRESENTATIVE IN CONGRESS FROM THE STATE OF PENNSYLVANIA.

Mr. Kelley. Mr. Vare, a Member of the House from Pennsylvania, would like to make a statement to the committee, and if he

is ready we will be glad to have him make it at this time.

Mr. Vare. Mr. Chairman, I want to discuss, with your permission. the feature of the present bill in connection with the personnel of the Navy. I am exceedingly interested, first, to see that the Navy of the country is of adequate size to meet all the requirements & agreed upon by the recent Disarmament Conference. I do not know whether the committee has come to any conclusion or whether the have passed that feature of the bill, but the Public Ledger of Philadelphia, this morning printed quite a prominent article, using the figure 65,000 as the number which the committee were inclinal to believe to be adequate. Of course, I do not know whether the figures are really correct or not. I do want to submit to the committee the information that I have, which maybe has already been submitted, but I made some inquiries from responsible naval offices. who tell me that if this program is to be adequately carried out that in their opinion, the number should be 120,000. The Secretary of the Navy, having in mind the policy of the committee to economize places the figures at 90,000 men and 6,000 apprentices. Other high officials having had intimate relations with the Disarmament Conference, have expressed their views that 80,000 men and 6,000 sp prentices would be the least numbers that would be reasonably adquate to man the ships.

I am frank to admit that I am interested from a two-fold stand-point. First, I want to see the policies of the Disarmament Conference carried out; and, secondly, I want to see the efficiency of the Navy maintained. Having in mind the city of Philadelphia, when I live, the former Secretary of the Navy told me quite frequently that he regarded the Philadelphia Navy Yard as the equal, if not the superior, of all the navy yards of the country from the stand-point of economy and efficiency; and I think the records of the Navy Department, having been kept in line with that thought, will show that the availability and the results obtained from the Philadelphia Navy Yard during the war were possibly more advantageous that those obtained from the navy yards of many other parts of the

country.

I realize the importance of the economical policy which the appropriations Committee is endeavoring to and have very successfully carried out. Sometimes, however, in our desire for economy we are very apt to lean backward if we become too enthusiastic on our subject; and it seems to me that for the general standing of country in its relations with the foreign countries which participals in the recent conference, under no circumstances should we less our importance, and that economy, practiced to a greater extent that which would carry out the policies of the recent conference, say the least, would be possibly unwise and perhaps injurious to our

ntry. I am hopeful that your subcommittee will recommend at st a personnel of 86,000 men.

Mr. Kelley. Mr. Vare, we are much obliged to you.

Mr. VARE. I thank you, Mr. Chairman, for the opportunity to be sent.

FUEL AND TRANSPORTATION.

Mr. Kelley. The next is fuel and transportation. Let us take fuel st, or do they go together?

Captain Leutze. They go together.

Mr. Kelley. I think I suggested, Admiral, that in preparing the imate for fuel and transportation it would be desirable that the el consumption be computed on so many thousand miles a year as by be appropriated for the various classes of vessels.

Admiral POTTER. Yes, sir.

Mr. Kelley. You have done that?

Captain LEUTZE. Yes, sir; and also, in accordance with your sugtion, we have put in those first columns figures which show the arly consumption while steaming, in port, and cruising 100 miles. Mr. Kelley. Before we take up the details you might make a eral statement showing what your requirements will be.

Captain Leutze. The estimates for coal and fuel are for 440 vesas given to me by the Chief of Naval Operations. For most of ships they are based on 16,200 miles for the year, but there are tain exceptions, such as oilers, which it was estimated would ise 50,000 miles; ammunition ships, 50,000 miles; colliers, 50,000 es; cargo vessels, 50,000 miles; transports, 75,000 miles; mine epers, 30,000 miles; auxiliary ships, radio, 30,000 miles; seaing tugs, 12,000 miles; shore-base submarines, 9,600 miles; reserve troyers, 12,000 miles. The number of miles was given to me by the ef of Operations.

"EVISED ESTIMATE FOR APPROPRIATION "FUEL AND TRANSPORTATION, 1923."

he following revised estimate of funds required under the appropriation ael and transportation, 1923" is submitted:

1 (376,906 tons at \$8.849 per ton)	
1 oil (5,524,456 barrels at \$2.163 per barrel)	11, 949, 398, 00
⊭oline (3,289,500 gallons at \$0.24 per gallon)	
intenance of fuel plants	8 76, 095, 64
sed fuel oil and coal storages	
ter	130, 065, 23
	30, 564, 73
Stric current	163, 047, 34
nurrage	13, 156. 00
5 hire	26, 312, 00
cellaneous	20, 000. 00

he above estimate is based on the number of vessels to be kept in comssion during the fiscal year 1923, as shown on the list furnished by the Chief Naval Operations. This list shows a total of 443 vessels of all types, of

ich 440 burn coal or fuel oil and 3 gasoline as fuel.

The estimate for coal and fuel oil for the 440 vessels above mentioned is ed on vessels cruising 16,200 miles during the year, with the following ex-€ions: 7 oilers will cruise 50,000 miles; 2 ammunition ships will cruise 50,000

miles; 2 colliers will cruise 50,000 miles; 5 cargo vessels will cruise 50,000 miles; 3 transports will cruise 75,000 miles; 10 mine sweepers will cruise 30,000 miles; 1 auxiliary ship will cruise 30,000 miles; 14 seagoing tugs will cruise 12,000 miles; 5 shore-based submarines will cruise 9,600 miles; 4 reserve destroyers will cruise 12,000 miles.

Ammunition lighters, fuel-oil barges, freight lighters, ferryboats and launchs water barges, and miscellaneous craft are not shown at any particular cruise distance, as vessels of these types do not operate on fixed schedules and tequantities are based on past performances. Receiving ships will do no cruisia.

and port consumption only is shown for these vessels.

Mr. Kelley. Are the 440 vessels which you have mentioned the

total of the vessels indicated on this chart?

Captain Lettze. Yes, sir; on the big sheet. That which you have in front of you is a summary sheet, and the details, showing the names of each ship, are on the attached sheets.

Mr. Kelley. It does not add to anything like that.

Captain Leutze. I think you will find the difference on the sheet of the statement which shows the district shore-activities call

Mr. Kelley. District vessels?

Captain Leutze. District shore-activities craft.

Mr. Kelley. We were not to put in any district vessels; just the ships to be kept in commission; and the district expense we decide

was all the expense of the shore establishment.

Captain Levize. The last sheet shows 14 seagoing tugs that are assigned to the districts, 42 harbor tugs, 5 shore-base submarine. 9 receiving ships, 4 ammunition lighters, self-propelled, 19 fulbarges, 11 freight lighters, 23 ferryboats, 4 self-propelled water barges, and 5 miscellaneous craft.

Mr. Kelley. That makes the other 100, and, added to the first is

would make the 400 you spoke of?

Captain Leutze. Yes, sir; the 440.

Mr. Kelley. The last list were those that were properly charge able to shore activities?

Captain Leutze. Yes, sir. Secretary Denby. Then there is the fuel.

Mr. Kelley. You have to have fuel out of this appropriation

Secretary Denby, Yes, sir.

Mr. Kelley. Captain, before we go into the details, my under standing is that this estimate for fuel is based upon the list of vessel furnished you by the Navy Department based upon an enlisted form of 65,000 men!

Captain Leutze. That is correct.

Mr. Kelley. The list and the Secretary's letter accompanying * list have already been printed in the record?

Captain Leutze. I am not sure about that.

Mr. Kelley. The list I speak of, furnished by the Secretary. ships with the letter accompanying it have been printed in the record

Now, Captain, proceed with your statement.

Captain Leutze. The total amount necessary, according to estimate, is \$17,426,053.81, made up as follows: Coal, \$3,335,241. fuel oil, \$11,949,398; gasoline, \$789,480; maintenance of fuel plant \$876,095,64; leased fuel oil and coal storage, \$92,693.68; \$130,065.23; ice, \$30,564.73; electric current, \$1**63,047.34; demunt** \$13,156; tug hire, \$26,312, and miscellaneous, \$20,000, making a total of \$17,426,053.81.

Mr. Kelley. Please give the total for the first three items—coal, uel oil, and gasoline?

Captain Leutze. \$16.074,119.19.

Mr. Kelley. How much does that leave for all the other purposes arried under this appropriation? Captain Leutze. \$1.351,934.62.

COST OF COAL PER TON.

Mr. Kelley. How did you arrive at your price per ton of coal? Captain Leutze. We took the amount of fuel that was used by the lantic and Pacific Fleets during the first six months and applied at same percentage to the estimate for this year for the two fleets. en we took the average price of what we expect to have to pay, sed on current prices. It amounts for the fuel oil to \$2.163 per rel and for the coal \$8.849 per ton.

Mr. Kelley. It can not be that you will pay \$8.84 for coal? Captain Leutze. The unit price for the coal is based on the present atract market price at tidewater points with differential added for nsportation and various forms of delivery. That fuel includes, of arse, the coal used in the Pacific.

Mr. Kelley. The coal in the Pacific will be almost negligible under

new distribution of ships?
Captain Leutze. No, sir. It is 60,000 tons that we will use on the cific from stock already out there and 110,000 tons will have to be That makes 170,000 tons to be used out there. at out in addition. is includes the Asiatic coal.

Mr. Kelley. The stock out there?

Captain Leutze. Some of it out there is worth as high as \$10.45, t the stock out there is paid for and in the storehouse, waiting to issued to the ships.

Mr. Kelley. Paid for out of the naval supply fund? Captain Leutze. Yes, sir. The naval supply account fund.

Mr. Kelley. And you will have to reimburse that fund? Captain Leutze. Yes. sir.

COAL BEQUIREMENTS.

Mr. Kelley. How much is your total coal estimate? Captain Leutze. Three hundred and seventy-six thousand nine ndred and six tons.

Mr. Kelley. How does it happen that you will need one-half of the al on the Pacific when you are going to have the oil burners out ere and the coal burners on the Atlantic?

Captain Leutze. We simply took the rate at which it has been used the first six months.

Mr. Kelley. That is no answer.

Admiral Coonty. The answer is that with 65,000 men there will few ships in the Atlantic.

Mr. Kelley. Then you will not need any coal and we can cut the m of coal very extensively?

Admiral Coontz. No. sir. We have already allowed for the cut. Mr. Kelley. If you do not have the ships you will not need the al?

Admiral Coonty. The ships are there by name. Mr. Kelley. You will not use or operate them? Admiral Coontz. Yes, sir: we will operate them.

Mr. Kelley. What do you mean?

Admiral Coontr. I mean to say that when we cut down to the 65.000 basis, when that time comes, there will be a great many fewer ships left on the Atlantic coast, relatively.

Mr. Kelley. How many tons are you asking for this year? Captain Leutze. Three hundred and seventy-six thousand nine

hundred and six tons.

Mr. Kelley. You asked for 406.576 last year for all of the fleet You are not asking for a very greatly reduced tonnage of coal for any reason that the Admiral has been talking about, have you! The fact is this reduction is based on taking out the old ships like the Olympia, is it not?

Captain Leutze. The Chief of Operations will have to answerthe

question.

Mr. Kelley. How much did the Olympia burn last year?

Captain Leutze. I have not that figure.

Mr. Kelley. Can you give us any idea as to how many tons of col a ship like that would burn?

Captain Leutze. No, sir.

Admiral Robison. When I served on the Olympia she used to but about 5,000 tons a year, but that was when she was in active opention on the Asiatic.

Mr. Kelley. She was not very active last year?

Secretary Denby, Yes, sir. She was actively cruising.

Mr. Kelley. There is one thing, if you are going to lay up the ships you do not need the coal. You are asking for almost as much

coal as last year?

Admiral Coonty. We are going to run every ship on the list if the bill passes that way. These estimates were made by consider ing the needs of each ship that would be named in case the enlisted personnel is reduced to 65,000. They are right on the list, ship by ship, every one of them.

Mr. Kelley. Twelve battleships of the first line that you have been

talking about running, are they all oil burners?

Admiral Coontz. No. sir. The New York and Texas are col burners.

Mr. Kelley. They are the only two coal-burning battleships that

you will have in commission?

Admiral ('oontz. Yes, sir; outside of those in ordinary. Those two are on the Pacific.

Mr. Kelley. Will those in ordinary have enough men on them 90

that they can cruise?

Admiral Coontz. No. sir. I do not know whether you charge ... coal to them except for the small amount for electric current!

Captain Leutze. Two-thirds of the ordinary port consumption. Mr. Kelley. How does it happen that you are estimating a dollar

more per ton than you estimated last year?

Captain Leutze. Last year it did not include the handling charge or the freight charges, which are in this year. It was \$7.65 is year, but the freight and handling were thrown down under me cellaneous.

Mr. Kelley. You do not mean to say that you paid \$7.65 for coal the mine?

Mr. Reed. That was the water transportation.

Commander Cobey. The charge is \$2.24 f. o. b. mine. The freight te to tidewater is \$2.80 and the rest is water freight to the Pacific. Mr. Kelley. You do not send it by freight. I thought you had lliers to take it out there. What do you want the colliers for? Secretary Denby. With the fleet.

Mr. Kelley. You do not send the coal out to the Pacific by com-

·rcial vessels?

Admiral Coontz. Yes, sir. Secretary Denby. The colliers accompany the fleet going to sea. Mr. Kelley. Where you have to handle the coal in that way it ·ms to me that the cheaper way would be to send the coal out there. Admiral Coonty. We plan to keep two colliers for next year in se the personnel is reduced to 65,000. You can work it out either

Nr. Kelley. \$4 a ton for getting from the Atlantic to Asia is ing some, it seems to me. What is the charge out there?

Captain Leutze. To the Pacific about \$7 a ton, and to the Asiatic 5 a ton.

Mr. Kelley. You have 60,000 tons out there?

Captain Leutze. One hundred and ten thousand tons more will sent out—95,000 tons to the Pacific coast and 15,000 tons to the

Mr. Kelley. Now, Captain, the bulk of the coal goes from Hampn Roads to the west coast!

Captain Leutze. Yes, sir.

Mr. Kelley. How about the coal that is used in the Atlantic?

Commander Cobey. The average freight rate is \$2.54.

Mr. Kelley. Why do you not have the ships go to Hampton Roads nd get the coal instead of shipping it around? I do not like the oks of this thing some way. Eight dollars and eighty-three cents, dollar higher than last year, charging \$2 and some odd cents for ater transportation from Hampton Roads when we have the ships hich can go there and get the coal?

Captain Leutze. The shore activity craft could not go.

Mr. Kelley. You could distribute a little of your shore activities this coal for the fleet. The shore activities get the coal somewhere

Captain Leutze. That is all included in this estimate for coal for

e next year: we had to put that in.

Mr. Kelley. What do you pay at the mine? Commander Corey. \$2.24 West Virginia and \$3.57 Pennsylvania. e ship Pennsylvania coal to the New York and Philadelphia vy yards.

Mr. Kelley. How much of that coal have you estimated for the

ttleships in ordinary!

Captain Leutze. Thirty-six thousand six hundred and ninety-six

Mr. Kelley. Six thousand tons of coal apiece?

Captain Leutze. Yes, sir.

Mr. Kelley. And what for the two in commission on the Pacific?

Captain Leutze. Thirty-four thousand and forty-five tons.

Mr. Kelley. Seventeen thousand tons apiece?

Captain Leutze. Yes, sir.

Mr. Kelley. Where is the rest of this coal? Thirty-six thousand tons for battleships in ordinary, and 110,000 tons for China make 146,000 tons.

Captain Leutze. Forty-six thousand five hundred and eleven tox for the patrol vessels—gunboats.

Mr. Kelley. They are over in China; that is a part of the China

outfit.

Admiral Coontz. They are scattered pretty well. Those 10 are in China!

Captain Leutze. Yes, sir. Nine thousand one hundred and seventy-three tons for the other patrol vessels; destroyer tenders, 10.023 tors.

Mr. Kelley. The six battleships, how much?

Captain Leutze. The six battleships in ordinary, 36,696 tons.

Mr. Kelley. What else do you have in the Atlantic? Captain Leutze. We have not got it split by oceans.

Mr. Kelley. How can you tell how much the fleet will be unless—Captain Leutze (interposing). We took the issues of coal for the first six months of 1922, and we prorated those issues down to the figure called for by this estimate.

Mr. Kelley. You have not figured this out on the basis of the table

at all?

Captain Leutze. Yes, sir; absolutely.

Mr. Kelley. How could you without knowing where the ships were or where they would be next year? How do you know the average will be \$8.86 per ton without knowing where the vessels will be located?

Captain Leutze. We used the amount of coal that was used during

the past six months at the present location of the ships.

Mr. Kelley. You are basing it upon the experience of the past when the ships were located in different places and when you had entirely different ships from what you will have next year. You did not base the estimate upon this table at all.

Captain Lettze. I beg your pardon; we did base it on this table. We can not say that the ships will be in any one locality for a year.

Mr. Kelley. How do you average the coal, then?

Captain Leutze. It is based upon past experience. Mr. Kelley. The past experience of what!

Captain Leutze. Based on where the ships were located.

Mr. Kelley. Last year?

Commander Leutze. No. sir; this year, or during the first sign months of 1922.

Mr. Kelley. Some of those ships on that list were in the Atlanta

and now they will be in the Pacific.

Admiral Coontz. The two battleships burning coal in the Pacific will stay there; the outfit in China will stay there, except two if we can get them home, and the special-service squadron will cruise just as at present. The six ships in ordinary are in the Atlantic, and the other small craft burning coal will remain where they are in the various island possessions. I think it can be safely said that in the next 12 months there will be no changes as to where these ships will

located. If we carried any of them from the Atlantic to the cific, it would add greatly to the cost, and the tendency would be keep them where they are rather than spend more money.

Mr. Kelley. If these six were in commission in the way they were st year, you would require 102,000 tons for them alone—is that ght?

Captain Leurze. About 102,000 tons.

Mr. Kelley. That would make a total consumption of 478,906

ons, and you have only 406,000 tons this year.

Captain Leurze. The 406,000 tons for last year was based on eaming 1,000 miles per month, and this figure is based on steaming 350 miles per month.

Mr. Kelley. I am trying to find out how you get at the \$8.86 per n, and you have not helped me much. Do you know, Mr. Reed? Mr. Reed. Yes, sir; I understand his statement. It was not defitely possible for the Chief of Naval Operations to say that this ip or another ship would next year serve in any particular ocean, that in arriving at an equitable figure we took our consumption of all for the first six months of this year. We have just received all reports of the actual consumption, showing us how many tons coal have been consumed by all this fleet during the first six onths, and that was split up by oceans, allowing so much for the tlantic, so much for the Pacific, so much for the Asiatic station, and so much for other points. We had to assume, and it seemed toper, that that distribution would represent the distribution of all consumption during 1923, the difference, if anything, being sainst us, because if more coal burners in the Atlantic go out there, would have a larger proportion of consumption in the Pacific.

ESTIMATED COST OF COAL AND OIL.

Mr. Kelley. I understand the general statement; and now let have the detailed figures showing how you arrived at this estiate of so much per ton at this place and so much per ton at the her place, and then striking an average.

Mr. Reed. The transportation involved here is 184,232 tons, and

he rail rate from the mine to Hampton Roads is \$2.80.

EMORANDUM SHOWING HOW AVERAGE PRICE OF COAL AND OIL AND GASOLINE WAS OBTAINED,

Unite prices of \$8.849 per ton for coal, \$2.163 per barrel for fuel oil, and 224 per gallon for gasoline, used in the estimate of funds required under the propriation "Fuel and transportation, 1922," were arrived at, as follows:

COAL.

17:060.00 tons used at Pacific coast points from stocks carried in N. S. A. F., at 88 ### 356,068.80 ### 356,068.80 ### 356,068.80 ### 35.60.16 tons used at Cavite from stocks carried in N. S. A. F., at \$10.45 ### 157,378.68 ### 284.624.79 tons purchased f. o. b. West Virginia mines, at \$2.24 ### 22.712.20 tons purchased f. o. b. Pennsylvania mines, at \$3.57 ### 35.75 ### 116,782.55

Transportation—rail and water:			
184,281.80 tons by railroad to Hampton Roads for shipment,			
at \$2.80\$515,849.% 100,389.99 tons by railroad to Hampton Roads for bunkers,			
at \$2.80			291, 091. %
			114, 696.97
at \$2.54			186, 034,68
95.778 tons by water Hampton Roads to Pacific coast ports, at \$7			670. 446. m
15,212.80 tons by water Hampton Roads to Asiatic stations, at \$15			228, 177, 0
284,623.79 tons trimming charges at Hampton Roads, at \$0.25 per ton			71, 155, 94
Total			
376,906 tons coal—\$3,335,241,19—\$8,849 per t		· •	5, 000, a11. IF
• • • • • • • • • • • • • • • • • • • •			
FUEL OIL.			
Point of delivery.	Unit price per barrel bulk.	Quantity.	Total.
Paul mouts	·	Perede	
East coast: Portsmouth, N. H	\$2. 90	Barrels. 29, 700	\$63, 1/0.00
Boston, Mass	2. %0 2. 76	74, 250 163, 350	205, 901. F 130, 94. F
New London, Conn Philadelphia, Pa	2.75 2.65	14,850 103,950	40,张.3 273.标.第
New York, N. Y	2.65	222,750	. 390.5€.3
Guantanamo, Cuba. Charleston, S. C.	2. 56 2. 55	29, 700 89, 100	75,6%.0F 277,3%.0F
Norfolk, Va Canal Zone	2. 60 2. 70	163, 350 29, 700	424,710.00 80,190 #
Gulf ports.	2. 25	1, 485, 010	3,415.25.0
At average cost of	2. 4411	2, 405, 710	5,872,722 %
ies during 11-month period)	. 17		
Total West coast:	2.6111 		6,24,723
San Francisco, Calif	1.50	534,600 1,485,000	801, 101.0
San Pedro, CalifPearl Harbor, T. H.	1.50 2.15	356,646	766.736.9
Scattle, Wash San Diego, Calif	1. 88 1. 65	267, 300 475, 200	502.00.0 754.00.0
	1.629	3, 118, 746	5,002,70.0
At average cost of. Add differential per barrel for other forms and points of delivery (average of increase over basic prices for deliv-	. 187	, ,	564.98.3
eries during 11 months' period)		2 110 744	
Total	1.816	3, 118, 746	3,001,001
5 524,456 barrels÷\$11,949,365,68=\$2,1629,			
The average unit price per gallon for motor gasoline is arrived at as follows:			
Prices at principal points under present cont	racts are	: —	
East coast:		••	
Boston, Mass			. 205- \$ 0.5 . 195
Baltimore, Md			. 195
Norfolk, Va			. 195
Key West, Fla			. 195 24
Port Arthur, Tex			
Puget Sound, Wash.			.2335
Mare Island, Calif			.212
Richmond, Calif			. 205 35 . 21 35
San Pedro, Calif			205- 3
San Diego, Calif			. 215 34
Pearl Harbor, T. H			

The unit price of \$0.24 per gallon for motor gasoline is based on prices, as own above, now being paid under contracts, for gasoline delivered in various: rms, such as f. o. b. vessels at contractor's works, in supplier's barges, in tank rs, in tank wagons, in drums, and a limited quantity in cans and cases.

Mr. Kelley. That added to the price at the mine would make how uch at Hampton Roads?

Mr. Reed. \$5.04 per ton at Hampton Roads. Then there are triming charges of 25 cents per ton.

Mr. Kelley. That would make \$5.29 per ton.

Mr. Reed. For transportation to Pacific coast points the cost is \$7 er ton, and that would give you a cost there of \$12.29 per ton.

Mr. Kelley. Do you figure on taking around there the whole quan-

ty of 170,000 tons?

Mr. Reed. No, sir; only a part of it. We figure on taking to the acific coast 95,778 tons by water at a cost of \$7 per ton, and 15,213 ons to the Asiatic station at a cost of \$15 per ton for transportation. hat would be in addition to the \$5.29 per ton at Hampton Roads.

COST OF JAPANESE COAL.

Mr. Kelley. At what price could you buy coal in Asia if you ought it there commercially?

Mr. Reed. Japanese coal is procurable at about \$9.90 per ton at

e present time, but the price fluctuates greatly.

Mr. Kelley. And you could take coal out there at a cost of how uch?

Mr. Reed. \$15 per ton, or total cost of \$20.29.

Mr. Kelley. Is Japanese coal unusable?

Admiral Potter. It is not fit to use on our ships.

Mr. Reed. It requires about two-thirds of a ton of our coal to equal ton of Japanese coal, I think.

Mr. Kelley. You can not burn it in our ships?

Admiral Potter. We never do except in an emergency. Admiral obison would know about that.

Mr. Kelley. Is Japanese coal unusable in our ships?

Admiral Robison. No. sir; we can use it.

Mr. Kelley. Have you thought about the advisability of buying oal out there for our ships?

Admiral Robison, Yes, sir.

Mr. Kelley. What is your opinion in regard to it?

Admiral Robison, Japanese coal is usable. It is worth about vo-thirds as much as ours, and sometimes it costs less than twoairds as much as ours. The difference between the costs when it omes to burning it aboard our ships measured in dollars and cents small enough to make it worth while to have the reserve supply coal that we have there, and for our reserves we must have the st coal we can obtain.

Mr. Kelley. You plan to use for the ships out there coal that you ill buy commercially out there?

Admiral Robison. No. sir.

Mr. Kelley. You will send it from here?

Admiral Robison. Yes, sir. The reason for that is that coal deriorates in storage. The best coal after 10 years in storage is not orth anything.

Mr. Kelley. You will not need to keep it so long. Have we a

big supply of coal out there?

Admiral Robison. I am not familiar with those figures, but I think there is something over 50,000 tons out there. That coal must be used up at a certain rate, say, a quarter of it every year in order to keep it from excessive deterioration.

Mr. Kelley. Do we use more than a quarter of 50,000 tons a year! Admiral Robison. I do not know that figure. I would like to get

that figure from somebody else.

Commander Conex. We used 58,224 tons in the last 12 months ashore and afloat.

Mr. Kelley. How much have you in storage?

Commander Cobey. Thirty-one thousand seven hundred and eighty-six tons on the 1st of February. As Admiral Robison has said, Japanese coal is rated two-thirds the value of Pocahontas coal in British thermal units. When the price of Japanese coal falls to a point where it is less than two-thirds the price of Pocahontas coal delivered there then Japanese coal is used.

Mr. Kelley. It costs \$20 to deliver Pocahontas coal out them and you can buy Japanese coal for \$9.90 per ton, and, as you sy there is a difference of only one-third in value. Therefore you would

save by using Japanese coal.

Commander Coney. They are now using Japanese coal.

Mr. Kelley. That would represent a saving of-

Admiral Robison. \$5.15 per ton.

Commander Conex. We are now using Japanese coal on account

of the drop in the price.

Mr. Kelley. You are asking us to appropriate money to take all this coal from Hampton Roads to China, at a cost of \$20 per ton when you can buy Japanese coal of one-third less value in British thermal units at \$9.90 per ton. If you bought the coal there you could effect a saving of \$6 per ton.

Commander Cobey. We are burning Japanese coal out there now.

However, the price of that coal fluctuates a great deal.

Mr. Kelley. Was this item of \$20 per ton figured in this average of \$8.86?

Mr. Reed. We figured on the transportation of 15.213 tons by

commercial carrier at that rate.

Admiral Robison. If you used Japanese coal to any great extent I would like to ask for an increase in the engineering appropriation to correspond, because I will have to spend more money on the boilers. The Japanese coal is dirtier and it has sulphur in it. It does not pay to use it unless there is a considerable difference in the price. With a difference of \$6 per ton I would rather as Japanese coal.

Mr. Kelley. We will take care of your end of it, Admiral.

Admiral Robison. This is something that affects my end of it we

directly.

Mr. Kelley. You gentlemen may have convinced yourselves about this, but you have not convinced me at all that you are paying anything like an average of \$8.86 per ton for coal, or that any small amount should be allowed. The cost is \$5.04 per ton at Hampie Roads, and the bulk of this coal is to be used in the Atlantic.

e asking 376,000 tons, and with two-thirds of the coal to be used the Atlantic, and with the price of coal at Hampton Roads \$5.04 er ton, you figure an average of \$8.86 per ton. Now, you say that ou can buy the coal that you want to use in the Orient at \$9.90 per n, and it will cost \$20 per ton to carry it out there. By using Japaese coal at that price you will make a saving of \$6 per ton on the al, although it may make a little difference in engineering.

Commander Cobey. Thirty-two thousand seven hundred and relve tons of that coal is Pennsylvania coal, and the balance is ocahontas coal. Fifteen thousand two hundred and thirteen tons

e to be shipped to the Asiatic station.

Mr. Kelley. What is the freight on the Pennsylvania coal?

Commander Control That coal delivered at New York or Phila-Iphia is \$7.08 per ton as against \$5.29 per ton at Hampton Roads. Mr. Kelley. How much will there be of that Pennsylvania coal? Commander Cobey. Thirty-two thousand seven hundred and elve tons.

Mr. Kelley. That is just a little. Commander Cobey. Ninety-five thousand seven hundred and sevty-eight tons goes to Pacific points other than the Asiatic Station, d 15,213 tons goes to the Asiatic Station.

Mr. Kelley. I thought you said you did not need to send any over

Commander Corry. That depends upon the Japanese coal mart. which fluctuates very violently. Up to January, it was higher an two-thirds the value of Pocahontas coal delivered

Mr. Kelley. Admiral Potter, what do you say about this matter?

ave they convinced you?

Admiral Potter. They convinced me. I did not know until just w that the engineering people agreed to the using of Japanese coal all. I knew that they used it in cases of emergency, but I did not low that as a matter of principle the Bureau of Engineering alwed Japanese coal to be bought.

Mr. Kelley. Would it not cost more to send it by freight than use the extra collier that will not be used in the fleet? Could you I take all the coal you need around to the Pacific with that col-

r and store it out there?

Admiral Potter. Manning it with a Navy crew?

Mr. Kelley. Suppose you took the extra collier for that purpose, w much would it cost you to carry coal out there by that means? ow much coal could you carry on that collier? Commander Cobey. Ten thousand five hundred tons.

Mr. Kelley. You would have to make 10 trips in order to get the nount of coal you would need, and you could not make that many ips in one year.

Admiral Coontz. Whenever there is a collier available, we use her

herever it is possible to do **s**o.

COAL SUPPLY ON PACIFIC COAST.

Mr. Kelley. How much coal have you already stored on the Pa-

Commander Cobey. We have of all kinds at all places, both Pacific id Atlantic, very close to a two-year supply.

Mr. Kelley. How much do you want on the Pacific?

Commander Cobex. That includes coal used by the power plant. They use much more at Cavite than they use affoat. That include the shore consumption.

Mr. Kelley. You do not use the same kind of coal for the power

plants, do you?

Commander Conex. We do when the price justifies it. When the price is falling, as it is in the case of the Japanese coal, we use that We are using Japanese coal for the power plant at Cavite.

Mr. Kelley. At what point do you have coal stored on the Pacife! Commander Corey. At San Diego, Tiberon, and Puget Sound.

Mr. Kelley. How much do you have stored at each place? Commander Conex. At San Diego. 43,299 tons; at Tiberon,

107,910 tons; and at Puget Sound, 30,755 tons.

Mr. Keller. Why do you want to stock up further on coal of there when you have a two-year supply on hand?

Admiral Coonty. We must have a coal supply.

Mr. Kelley. The world will not come to an end, and there will be a supply for next year. You have a two-year supply on hand now. and why should you keep filling the bunkers?

Admiral Coonty. For the safety of the United States, and because

every authority on the subject wants it kept there.

Mr. Kelley. A two-year supply? Admiral Coontz. Yes, sir. That does not affect what appears naval supply account fund that I can see.

Mr. Kelley. We would save this freight.

Admiral Cooxtz. It certainly would save freight this year, but you would be cutting the reserve down to nothing.

Commander Coney. That is based on the fleet that is expected to be

maintained next year.

Secretary Denby. What has been the custom in the past?

Admiral Coonty. The custom ever since we have had any war plans has been to gradually but surely create reserve supplies of ful and particularly in the Pacific, and we are slowly building up to what we should have out there, having in view that if anything happend that would prevent us from taking any coal out there we would have a supply available.

Mr. Kelley. How much coal are we going to deliver out there

tween now and the 1st of July?

Commander Cobey. None. Mr. Kelley. There is no contract in existence for the present year. Commander Cobey, No. sir. There is a 15-month supply on The two-year supply includes a large storage down Pacific. Hampton Roads.

Mr. Kelley. A two-year supply for what? Commander Cobey. For the vessels that we expect to have in ... mission next year.

Mr. Kelley. For the vessels on this list?

Commander Cobey. Yes, sir. Secretary Dexby. I would like to make one point clear: I do≠ see what benefit the appropriation would gain by destroying two years' supply.

Mr. Kelley. If we have that supply of coal out there, we do

need to ship any more around.

Secretary Denby. We would have to pay it back.

Mr. Kelley. I am trying to ascertain whether or not you want to aild up any supply in addition to what you are using out there, in

ie way of a further reserve.

Admiral Coontz. This does not account for any reserve next year. Commander Coney. This contemplates cutting down the reserves, nd if the coal should be consumed in anything like the quantity it as on this coast at the time of the World War, we would not have tore than a four months' supply there.

Mr. Kelley. On this coast during the war we had great numers of vessels of every description crossing the Atlantic. They

ere crossing the Atlantic by the score.

Commander Cobey. Based upon the consumption during the forld War, we would have only about a four months' supply on

e Pacific.

Secretary Denby. Is this for the operation of the fleet only, or it for replenishing the naval stores accounts, or is it creating a ntingent reserve? If it is to operate the fleet and the Naval stablishment out there alone, then one year's supply would be eded, but if it is to operate the fleet and Naval Establishment us a reserve, then more would be needed.

Commander Cobey. It is the latter. Secretary Denby. Then, I think you could drop the reserve for e year.

Admiral Coontz. No, sir; we could not.

Colonel Roosevelt. I do not think the commander understood the estion. Commander, the coal we are asking at this time does not polement our reserve, does it, but it simply lets it remain in statu

Commander Cobey. It reduces it some.

Secretary Denby. That makes a difference, if it is not to increase I understood you to say that it would increase it.

Commander Cobey. It will reduce it about 60,000 tons. We complate using the reserve to the extent of 60,000 tons. That is mply a reserve under the control of the department.

ESTIMATED COST OF COAL.

Mr. Kelley. What is the price of coal at commercial plants at in Diego and San Francisco, or what could you buy coal delivered i the coast for?

Commander Cobey. At this time it is exactly the same price we eve. The commercial price at the mines to-day varies from \$1.68 \$2.24. The price delivered varies according to the kind of botm that can be gotten. If a vessel is going out there light and takes re coal as ballast, the rate may be as low at \$4.50.

Mr. Kelley. When we gave authority to readjust the coal price st year, at what price did you inventory the coal on the Pacific? Commander Cobey. On the west coast it was inventoried down to

} per ton.

Mr. Kelley. Then, why do you want us to give you \$12 per ton? Captain Leutze. We are asking \$8.849 per ton as an average. It \$8 on the Pacific coast and \$10.45 for the Asiatic Station.

Mr. Kelley. You inventoried this coal at those points on the west coast at what?

Captain Leutze. \$8 per ton, and at Cavite at \$10.45 per ton.

Mr. Kelley. So that for all the coal you have on the Pacific coas you settled with the Navy on a basis of \$8 per ton, and on the bass of \$10 per ton for the coal at Cavite!

Captain Leutze. Yes, sir: \$8 for Pacific coast and \$10.45 for

Asiatic.

Mr. Kelley. You are still asking for an average cost of SM

per ton !

Commander Cobey. \$8.849 per ton. That is because much of that coal went out on naval colliers, and we did not have to pay out of

our appropriation for the cost of moving it.

Mr. Kelley. With all the coal you will use for the coming year costing \$8 per ton on the Pacific coast and only \$10 per ton at Cavia and with two-thirds of the coal you are figuring on to be used at Hampton Roads, you still figure on an average of \$8.86 per ton!

Colonel Roosevelt. You say that two-thirds of the coal will be

used at Hampton Roads?

Mr. Kelley. I am taking their figures.

Colonel Roosevelt. It is not used at Hampton Roads, but we have

to rehandle it from Hampton Roads.

Mr. Kelley. Your ships can take care of that. They can come to the docks at Hampton Roads and get coal occasionally as they need it.

Secretary Denby. They will not be able to operate.

Mr. Kelley. Then you will not need any coal at all. I think! have enough information about the coal.

Admiral Country. I think these people can show you that in a fee

sentences, because it is an open and shut proposition.

Mr. Kelley. Here is what they have said: You are going to have to use some 110,000 tons of coal on the Pacific. Now, that coal is there; it has already been put there and it is held in the naval supply account; it was scaled down by authority of law from the price cost to put it there to \$8 a ton, and you are going to pay \$8 a ton for it when you reimburse that fund. Now, that is the big end of your freight proposition, in addition to the cost of the coal from Hampton Roads, and it goes without saying, if that is true, that the coal you use in the Atlantic would not bring the average of the freight up so that the average of all your coal will be \$8.86 a ton.

Admiral Coonty. If I understand it correctly, and what they have

told me is true. I utterly disagree with you.

Mr. Kelley. Well, you state it.

Admiral Coontz. Well, I will state that if we use 100 tons in Atlantic at such and such a price and 100 tons

Mr. Kelley (interposing). Hold on. At what price? Became

that is what we are figuring on.

Admiral Coonty. That is \$5.29 at Hampton Roads. And if use 100 tons in the Pacific—

Mr. Kelley (interposing). That will average \$8.86, will it!
Admiral Coontz. And use 100 tons on the Asiatic Station.
if we take the total number of tons and total cost, we will get average absolutely, as shown by the table.

Ir. Kelley. Admiral, you are a good sailor but a poor mathetician.

Ir. REED. I would like to make the further statement that on the cific coast we will use approximately 140,000 tons, of which 45,000 l come from stock at the price of \$8 per ton.

Ir. Kelley. Why do you not use it all?

Ir. Reed. They will not permit the depletion of the reserves more n 45,000 tons. Ir. Kelley. Who will not permit it?

of Ir. Reed. The Secretary and Operations. And 95,000 tons must sent out there for replacement.

Ir. Kelley. You say you are figuring on sending 95,000 tons out re for replacement?

Ir. Reed. Yes, sir.

Ir. Kelley. Why did you not say so? You said you were send-110,000 tons.

'aptain Leutze. Ninety-five thousand tons to Pacific points and 000 tons to the Asiatic station, making 110,000 tons.

Ir. Kelley. That is worse yet.

'aptain Leurze. No, sir; because the Asiatic is a very much higher

'ommander Cobey. I think I can clear the whole thing up. The mates are based roughly-

Ir. Kelley (interposing). Very.

Commander Cobey (continuing). On the consumption of 170,000 s of coal in the Pacific and on the Asiatic Station; of that amount is estimated that we will deplete the reserve coal on the Asiatic ation by 15,000 tons and deplete the reserve on the Pacific coast 45,000 tons; that is a total of 60,000 tons and leaves 110,000 tons. be transported from the east coast; taking the shipments from mpton Roads it gives us 110,000 tons to be transported out there of the 170,000 tons to be used, of which 95,000 tons are to be sent Pacific coast points and 15,000 tons to Asiatic points. The coal go to the Pacific coast points will cost us \$12.29 a ton and the 2000 tons to be sent to the Asiatic Station will cost us \$20.29 a That gives the exact figures that Admiral Coontz spoke of.

Ir. Kelley. If you buy the Japanese coal instead of buying it out Asia at \$10 a ton, you will save \$6 a ton out there and make te a difference in your averages; and if you should use a little re of your stock on the Pacific coast than you have calculated at a ton, that would make a still further difference.

ommander Cobey. Those two things are contingencies on which can not safely calculate and for this reason: Take the Asiatic coal. Admiral Robison pointed out, it may not be of a quality which ld be used in the boilers of our ships.

Ir. Kelley. I take his word for that; he says it can.

'ommander Cobey. Well. I think the admiral meant that it deds on the kind of Japanese coal.

Ir. Kelley. No: he said that it can be used, and he is one of the ers who says what he means and strikes straight from the shoul-, and I like him. Go ahead.

ommander Cobey. I was going to say that he would probably want ry the coal first, although we know some of that coal can be used.

Mr. Kelley. He would not say it could be used if he had not tried it.

Commander Corey. Of course, it comes from different mines and it depends on the mines. Now, as to the question of the depletion of stocks. We have gone on the assumption that it was unsafe to deplete the stocks by a larger quantity than 60,000 tons; we are putting nothing into stock and taking out 60,000 tons of our war reserve; the use of Japanese coal is very problematical and the only safe way to figure is on sending coal from Hampton Roads in case the quality of Japanese coal is not satisfactory or in case the price is not satisfactory.

ESTIMATED COST OF COAL AT DIFFERENT POINTS.

Mr. Kelley. Coming to the Atlantic, is there any way of handling this coal without charging \$3 a ton for getting it on board ship at Hampton Roads?

Commander Cobey. There is no other way of getting it to the fleet. We have estimated on one-seventh going in naval colliers, and that is

all that can be sent.

Mr. Kelley. I mean on the Atlantic coast.

Commander Cobey. That includes the Atlantic.

Mr. Kelley. I did not mean the Pacific. I say, Is they any way of handling the two hundred thousand and some odd tons you are going to use on the Atlantic without adding \$3 a ton to the price at Hampton Roads?

Commander Cobey. No. sir; there are not sufficient colliers avail-

able.

Mr. REED. We did not add \$3 a ton to the coal used on the Atlantic. The average-

Mr. Kelley (interposing). How much coal have you stored on the

Atlantic?

Commander Cobey. We have adequate quantities stored.

Mr. Kelley. That does not mean anything to me. I want tons. Commander Cobey. There are two storages at Hampton Roods containing 278,000 tons.

Mr. Kelley. That you can buy at how much a ton down there!

Commander Cobey. \$5.29.

Mr. Kelley. Two hundred and seventy-eight thousand tons! Commander Cobey. Yes, sir.

Mr. Kelley. And you are figuring on replenishing that at \$3.5

Colonel Roosevelt. No.

Mr. Kelley. Yes: the average is \$8.86. Admiral Koontz. That is the average.

Mr. Kelley. That is what he wants; he wants a certain number of tons and that is the figure—\$8.86 for every ton.

Colonel Roosevelt. The costs differ at different places.

Mr. Kelley. I know; but that is the average.

Commander Cobey. That is correct.

Mr. Kelley. And you have inventoried that at \$5?

Commander Cobey, \$5.29.

Mr. Kelley. Where else have you coal on the Atlantic?

Commander Coney. The bulk of this coal is consumed away from lampton Roads; a very little is consumed at Hampton Roads.

Mr. Kelley. But it is stored there?

Commander Cobey. Yes, sir.

Mr. Kelley. And at the point of storage it is \$5.04 at the present narket?

Commander Cobey. \$5.29.

Mr. Kelley. You add 25 cents for handling?

Commander Cobey. Yes, sir.

Mr. Kelley. Now, where else have you coal stored on the Atlantic? Commander Cobey. At Portsmouth there is none except what is equired for current use—a one month's supply; at Boston there is not a month's supply; at Melville there are 21,503 tons. That is the irst storage place, coming down the coast, where there is any considerable quantity stored.

Mr. Kelley. At what price did you appraise that?

Commander Cobey. At just exactly what it cost us to get it in.

Mr. Kelley. I know; but I want figures.

Commander Cobey. \$6.14 a ton.

Mr. Kelley. Where is Melville—in Rhode Island?

Commander Cobey. Yes, sir.

Mr. Kelley. \$6.14 delivered in Rhode Island?

Commander Cobex. Yes, sir. That is cheaper than it can be bought ommercially there, but we send it up by water. At Constable Hook, which is in New York, there are 25,434 tons of emergency storage, and these are the only two storages until we get to Hampton Roads. It Philadelphia there is none in storage; at Key West there are just 541 tons, which is about a two months' supply of coal, depending a the number of ships that go in there. That is all that is stored on is coast, until we get to Guantanamo and Panama; at Panama we are 78,317 tons stored.

Mr. Kelley. At how much did you appraise that?

Commander Cobey. \$8.29 a ton.

Mr. Kelley. That is even less than your average?

Commander Coney. Yes, sir; because the average includes the Pafic and the Asiatic.

Mr. Kelley. How much at Guantanamo?

Commander Cobey. There are 18,039 tons at Guantanamo, and Lat is all on this coast.

Mr. Kelley. How about your contracts for deliveries on this coast >r the rest of the year?

Commander Cobey. We have no contracts extending past the 31st March.

ESTIMATED COAL CONSUMPTION.

Mr. Kelley. So you do not expect any coal to be delivered the rest the year?

Commander Cobey. Yes, sir; we expect to extend those contracts,

at that is dependent on the coal strike.

Mr. Kelley. How much coal do you expect to have delivered at Lampton Roads and these other points the rest of the year out of our current appropriation?

Commander Cobey. Only such coal as is needed to bunker vessels. Mr. Kelley. That does not give me any information: I want tons Commander Corey. Approximately 27,000 tons at Hampton Roads Mr. Kelley. And any other place? Commander Cobey. Yes, sir.

• Mr. Kelley. Where else?

Commander Cobey. Contracts are being extended to provide for no fixed quantity, but for such quantity as the Navy will require.

Mr. Kelley. How much do you estimate that will be? Commander Cobey. These must be estimates only.

Mr. Kelley. Certainly.

Commander Cobey. At New York, for the remaining three months of this year, beginning April 1, there will probably be required about 4,000 tons: at Philadelphia and Boston it is very problematical probably not over 2,000 tons at each place.

Mr. Kelley. Most everything is at Hampton Roads.

Commander Cobey. Yes, sir.

Mr. Kelley, I suppose you figure that Hampton Roads is your real base, your operating base on the Atlantic, do you not?

Commander Cobey. Yes, sir.

Mr. Kelley. It is called that, is it not?

Commander Cobey. Yes, sir.

Mr. Kelley. The ships put in there regularly.

Commander Cobey. That is where our greatest consumption of

Mr. Kelley. And they go in and out from that place?

Commander Cobey. Yes, sir.

Mr. Kelley. Almost exclusively!

Commander Cobey. Yes, sir; and it is by far the cheapest place w

Mr. Kelley. Next year you expect to use coal on a much more lat-

ish scale than you used coal this year!

Commander Cobey. No. sir.

Mr. Kelley. You have that information, have you not?

Captain Leutze. The average number of miles steaming is 16.200. which is 1,350 miles a month, as estimated for the year 1923.

Mr. Kelley. That is as against how much for the current year? Captain Leutze. The estimate for 1922 was on the basis of steming 2,000 miles per month and was changed by the committee in structions to 1,000 miles per month.

Mr. Kelley. So you want to run up to 16.200 miles from 12.00

miles.

Captain Leutze. That is what I am instructed to do; yes, sir.

Mr. Kelley. You were instructed to make these figures based upa a 333 per cent greater use of coal for next year than you used past year. Did you do that as to oil, too?

Captain Leutze. The oil was estimated for in the same manner

Mr. Kelley. So that these tons of coal you are asking for 🜬 are 333 per cent greater than they would be if you steamed the as you did this current year?

Captain Leutze. Not that much.

Mr. Kelley. Well, you go from 12,000 miles up to 16,200 miles 4.000 miles more, and that is one-third of 12.

Secretary Denby. May I interrupt there and say that economies in coal have been going on at a frightful rate?

Mr. Kelley. We are trying to get the amount of coal they are

asking for next year.

Captain Leutze. Port consumption comes in there, and it would **not** be all for steaming.

ESTIMATE OF MILES OF STEAMING.

Mr. Kelley. You are figuring on running all of these vessels 16,000 miles, whereas they ran only 12,000 miles this year. Captain Leutze. Pardon me.

Mr. Kelley. You did not say that?

Captain Leutze. No, sir; I said that was the corrected estimate for 1922, and I did not say anything about the miles they had run th'is vear.

Mr. Kelley. How many did they run?

Captain Leutze. I said that the estimate for 1922 was figured on the basis of 1,000 miles a month, or 12,000 miles a year.

Mr. Kelley. Well, are they running more than that?

Captain Leutze. I can not answer that.

Admiral Coontz. I can.

Mr. Kelley. Well, all right.

Admiral Coontz. The battleships in the first six months—

Mr. Kelley (interposing). These are coal burners, and I am only

talking about coal.

Admiral County. I can give that to you, but I just want to get into the record that the 14 battleships in 6 months averaged 7.963 miles.

Mr. Kelley. You have not that many coal-burning battleships.

Admiral Coontz. I can pull that out for you.

Mr. Kelley. Don't put anything in that will confuse us, but if you can put in anything that will straighten us out, do it. I want to know whether it is true that you are increasing the steaming from an A verage of 1,000 miles a month up to 16,000 miles a year on your coalourning ships.

Admiral Coontz. No. sir.

Commander Hill. I can give you those figures now.

Mr. Kelley. This gentleman says that is what he has done and

~ou sav it is not.

Captain Leutze. Not the coal burners; no, sir. I have talked about If the battleships. Six coal burners will be in port, and it is estimated that they will burn two-thirds of the port consumption, bearuse they will be in ordinary for the full year. There are only two cal burners that are going to steam at the rate of 16,200 miles. I *risunderstood your question, sir.

Mr. Kelley. How about the other ships?

Captain Leutze. The other ships on this list are based on steaming

6,200 miles, with the exceptions I noted before.

Mr. Kelley. For every ship that is on the list, except those battlehips, you have put down coal enough for them to go 16,000 miles.

Admiral Coontz. No. sir.

Mr. Kelley. Have you not done that, Captain Leutze?

Captain Leutze. I have put it down——

Mr. Kelley (interposing). Answer that, yes or no, so we will get the answer straight.

Captain Leutze. No.

Mr. Kelley. What have you done?

Captain Lettze. I have included some of them as going 50.0% miles a year and some 75,000.

Mr. Kelley. Coal burners?

Captain Leutze. Some of them are coal burners. The colliers are coal burners, and they are estimated to go 50,000 miles.

Mr. Kelley. You were talking about battleships exclusively

when you spoke of the 12,000 miles and 16,000 miles?

Captain Leutze. In that figure, yes.

Mr. Kelley. What were your instructions as to other ships that burn coal?

Captain Leutze. I had no specific instructions about any burn-

ing coal, but general instructions as to all ships.

Mr. Kelley. As to the amount of steaming they were going to do. Captain Leurze. I was told to take all the ships and figure them at 16.200 miles with the exception of certain ones, which I mentioned just before lunch.

Mr. Kelley. Which ones have you figured at 16,200 miles? Captain Leutze. All the battleships, the light cruisers—

Mr. Kelley (interposing). As you go along, give the average you have estimated for this year. I mean what they have steamed this year.

Captain Leutze. I have not the figures showing what they

steamed this year, sir.

Mr. Kelley. Do you not know how far the light cruisers went this year?

Captain LEUTZE. They have not been built.

Mr. Kelley. Have you no idea on what the estimate is based? Captain Leutze. Yes, sir.

Mr. Kelley. How far do you expect they will go next year!

Captain Leutze. One light cruiser is to be in commission the full year and is to go 16,200 miles; the other two are to be in commission nine months and are to go at the rate of 16,200 miles per year, or 1350 miles a month for the nine months.

Mr. Kelley. They will go just as far in the nine months as the

other one—if you get them—would go in 12.

Captain Leutze. No. sir: I said at the rate of 16.200 miles a year or 1.350 miles per month for nine months.

Mr. Kelley. What are the next ships you have there?

Captain Leutze. Well, there are three cruisers, the *Denver*, the *Galveston*, etc.

Mr. Kelley. How far do you say they will go?

Captain Leutze. Sixteen thousand two hundred miles.

Colonel Roosevelt. The figures are here for the coal consumption of the battleships for six months, the first six months of this year the figures are right here showing the amount of steaming they od and you can read them name by name.

Mr. Kelley. Maybe we will get to them directly.

Colonel Roosevelt. It will give you accurately the amount took for six months of this year.

Mr. Kelley. We can probably shorten this a little bit, because I think in your statement this morning you covered it pretty well.

Captain Leutze. Yes; I read off a list of the ships that were excepted from the 16,200 miles and gave the number of miles they were to steam this coming year.

Mr. Kelley. I remember you said the colliers were to go 50,000

miles.

Captain Leutze. Yes, sir; cruise 50,000 miles.

Mr. Kelley. They come into port and get some fuel, get the coal, then go back to the fleet, and that is why they go so far in a year.

Captain Leutze. Admiral Coontz will know about that.
Mr. Kelley. Do you not know? You are an officer of considerable standing.

Captain Leutze. That is what colliers do as an ordinary thing, but

I do not know how this figure of 50,000 was arrived at.

Mr. Kelley. That is why the colliers go farther than battleships, is it not?

Captain Leutze. Yes, sir.

Mr. Kelley. They do not add anything to the freight, do they?

Captain Leutze. No. sir.

Mr. Kelley. How many miles did those ships go during the first six months?

Colonel Roosevelt. The Arkansas, in five months, went 10,302 miles; the Delaware, in six months, went 8,000 miles; the North Dakota went 7,656 miles in six months; the Florida, 7,042 miles; the Wyoming, 9,825 miles; the New Mexico, 4,614 miles; the New York, 5.119 miles; the Texas, 4.181 miles; the Oklahoma, 13.508 miles; the Arizona, 12,626 miles; the Nevada, 12,069 miles; the Mississippi. 4.700 miles; the Pennsylvania, 10.074 miles; the Idaho, 5.282 miles; and the Tennessee, 6.926 miles, all of the latter in six months; and one. the Arkansas, in five months.

Mr. Kelley. What were they doing the other days?

Colonel ROOSEVELT. These figures cover the first six months of the current year, and the average for the six months is 7,963 miles, or, roughly, 8,000 miles, and at the rate of 16,000 miles per year.

Admiral Coontz. I think that the record of last year shows that

we figured on steaming one day in three.

Mr. Kelley. I remember about that day business, but it was not rery satisfactory, because we did not know how many hours there were in the day.

Admiral Coontz. And this figures on their steaming four and a alf clays a month on the average, which is pretty small, we think.

Mr. Kelley. Would 10,000 miles a year be 100 miles every three lays?

Captain Leutze. No. sir: 12,000 miles a year; 100 miles every hree days would be 1,000 miles a month or 12,000 miles a year.

Mr. Kelley. Then, 100 miles every three days and 30 days in the Ponth would make 1.000 miles a month or 12,000 miles a year?

Captain LEUTZE. Yes, sir.

Mr. Kelley. You are getting better in your arithmetic.

Captain Lettze. I do not know about that; but that is what it ·gures.

Mr. Kelley. Last year that is what you told us you based your Stimate on.

Mr. Reed. That is what the estimate on page 898 of the hear-

ings were based upon.

Colonel Roosevelt. Mr. Chairman, we have been using 1916 &1 comparison. Would it not be a good thing to go back and see t what rate we steamed our battleships in 1916?

Mr. Kelley. Will you take the same costs, too!

Colonel Roosevelt. No: that would not do, and that is not fair. because the heating units would not be the same.

Mr. Kelley. How far did you run in 1916!

Colonel Roosevelt. The average miles steamed by battleships and cruisers in commission-

Mr. Kelley (interposing). Give us the same ships.

Colonel Roosevelt. Fifteen thousand eight hundred and fifty-five miles; that is the average.

Mr. Kelley. About the same thing.

Colonel Roosevelt. Yes, sir; just about. Average miles steamed

by destroyers, 15,386.

Mr. Kelley. We have not gotten to the destroyers as yet. That's not far off from what you did before the war, what you are doing now, and what you want to do next year.

Colonel ROOSEVELT. It is pretty much of a muchness.

Mr. Kelley. That helps us very much and clears it up very well We have the other figures, so we can adjust your freight very nicely from Hampton Roads to the Atlantic and the Pacific, considering the reserves and the readjustment of prices which have already been made.

Colonel Roosevelt. Bearing in mind one thing, that we have me coal mines on the Pacific coast, and we can not afford to deplete the coal reserve on the Pacific coast for that reason, because the coal has to go overland or through the canal.

Mr. Kelley. I understand that very well.

Secretary Denby. And may I suggest another thing? That we are continually called upon for extra and unexpected voyages by these ships.

Mr. Kelley. I would not respond. I would say I did not have

the money.

Secretary Denby. You can not help respecting such calls when Congress passes a resolution.

Mr. Kelley. That is true, and we make you lots of trouble. Secretary DENBY. We have to obey the orders of Congress. so I think you ought to add something for these unexpected demands I can recite them to you in a half minute—totally unexpected calls which cost tens of thousands and hundreds of thousands of dollars.

Mr. Kelley. This coming year I think Congress is going to be very careful not to make any demands on you.

Secretary Denby. It is not only Congress; it is an unexpected demand from South America or a request from the State Department which we have to obev.

Mr. Kelley. I know there are certain peace duties which must k

performed.

Secretary Denby. Not only peace duties but unexpected duties Mr. Kelley. But you really do not need to run 16,000 miles a well in addition to those; you can take those in.

Secretary Denby. I am serious about this, and I think it is very a portant to have in the record that we have allowed for steaming acter a normal operating plan. We must have an operating plan; e must know reasonably well in advance what we are going to do ith the fleet in the year, and if we have an operating plan that plan In not take in the unexpected calls that are made upon the Navy ad to which it must respond as, for instance, the bringing home of e unknown dead, taking a potentate to Africa, sending destroyers n searches for vessels, or using the special-service squadron to send Parines here and there. So I think there should be a margin of a fety in the coal allowance to take care of all those things.

Mr. Kelley. No doubt they are in these other figures.

Secretary Denby. When we make an operating plan we try to live up to it and we do live up to it, but when we have these unexpected calls they have to be met, and then when we come to the end of the year and have a deficiency we meet much criticism, but certainly we can not avoid a deficiency if you do not give us any margin.

Mr. Kelley. You must avoid a deficiency on this thing and there can not be any deficiency. We are going to give you a certain sum of

money this year and you must not go beyond it.

Admiral Coontz. Let me give you a concrete example. We want to get two ships home from abroad and put them out of commission, the Albany and the New Orleans, and it will cost \$44,000 to get them home.

Mr. Kelley. But it is not an exact science, whether you run 16,000 miles, 15,000 miles, or 14,000 miles; with some ships you run 8,000 miles and others 10,000 miles, 12,000 miles, and 13,000 miles.

Admiral Coontz. But when we lay out a plan for target practice and other maneuvers, and know what we have to start with, it is almost an exact science, except as to these side things, of which we have 20, 30, or 40, amounting to hundreds of thousands of dollars.

Mr. Kelley. In making up your plan you should take into account these side things and allow yourselves a reasonable margin for them, and make your plans accordingly in time of peace.

Admiral Robison. The reserve fuel on the Pacific coast, particu-

larly in coal, is already very much lower than it used to be.

Mr. Kelley. Because we did not have any ships out there.

Admiral Robison. But we had an ocean there.

Mr. Kelley. We did not have any ships and, of course, we did not need any coal, any fighting ships, until now.

Admiral Robison. There was very much more coal than now when

he fleet went around.

Mr. Kelley. President Roosevelt wanted to impress certain people and he knew how to do it.

COAL CONSUMPTION.

Admiral Robison. In Puget Sound and San Francisco there was very much more coal than we have. Since the introduction of oil there has been a very great reduction in the coal consumption. Our Lotal fuel consumption in the Navy was greater 10 years ago than it is to-day.

Mr. Kelley. Oh, Admiral, what do you mean by that?

Admiral Robison. It was greater in tons. The total fuel consumption to-day is less than it was then.

Mr. Kelley. The whole fuel bill in 1916 was less than \$5,000,000. Admiral Robison. I should like to invite your attention to the fact that we used over 1,000,000 tons in 1910, and the coal consumption in 1913 was 945,840 tons.

Mr. Kelley. I do not care how many tons we used. The highest amount we ever appropriated for fuel prior to 1916 was \$5.(NN).(NN).

Admiral Coontz. You can multiply the cost by three or four. Then

there was the small size of the Navy.

Commander Cobey. Our price in 1916 was \$1.18 to \$1.45 f. o. h. mine and \$2.58 to \$2.85 delivered at Hampton Roads; now it is \$3.39 delivered at Hampton Roads.

Mr. Kelley. What was the average cost that year?

Commander Cobey. The average cost! Mr. Kelley. For the coal that year?

Commander Cobey. I have not that figure.

Mr. KELLEY. It will be very interesting for us to know. We will look that up ourselves. I am glad you mentioned it.

Mr. Reed. You can not find it; that is not in the record.

Admiral Potter. The cost of coal at Norfolk is not the price, unless delivered in collier or unless the ship is alongside at Hampton Roads.

Mr. Kelley. What is the price the way you handle it right now in your storehouse at Hampton Roads?

Admiral Potter. \$5.29.

Mr. Kelley. There is no trouble about that.

Admiral Potter. You seemed to be in doubt that the true average price was \$8.849.

Mr. Kelley. I have no trouble about the price of coal at Hampton

Roads—\$5.29 at the present moment in your storehouse.

Admiral Potter. But I thought you were in doubt as to the true average price of the coal for the whole establishment during the ensuing year.
Mr. Kelley. I think you are right.

Admiral Countz. \$8.849.

Mr. Kelley. I have grave doubts about that.

USE OF JAPANESE COAL.

Secretary Denby. I should like to ask whether it is the commit-

tee's desire that we use Japanese coal?

Mr. Kelley. That is a matter of science. We can take the admiral's word. He said it is just as good, except two-thirds the value. What is the difference whether the coal is stored or whether you buy it in the market when you need it?

Admiral Robison. It has been used in small quantities.

times they can get a collier.

Secretary Denby. In case of trouble you could not get it, and in any event you can not rely on a foreign country for coal. That's something that the American people would not tolerate.

Mr. Kelley. We have enough authority to scale this price dom

to \$8 on the coal on the Pacific.

Colonel ROOSEVELT. It is my earnest belief that the coal on the Pacific ought not to be scaled down further than it is contemplated in this.

Secretary Denby. Then there is the fact that it causes deterioration to the ship. That is one thing. You want us to have the best; you do not want us to use inferior things. Second, buying coal from a foreign country, across the Pacific-personally I do not believe that is a good practice.

Mr. Kelley. We buy lots of things of foreign countries.

Secretary Denby. But not coal for war vessels.

Mr. Kelley. There is absolutely no sense in carrying coal from Hampton Roads to China at \$20 a ton if you can save \$6 a ton, taking

into consideration the difference in quality.

Admiral Robison. One of the major reasons against the use of Japanese coal on the ships is not only the deterioration in the machinery, but also the great decrease, amounting to ohe-third, in the radius of action. Increased frequency of refueling is necessary.

Mr. Kelley. What do you mean by that?

Admiral Robison. If you fill a ship's bunkers with Japanese coal she can not do the work that can be done with American coal.

Mr. Kelley. Why not buy the coal over there and put it in the

bunkers?

Secretary Denby. With American coal the ship can steam farther. Admiral Robison. For certain purposes four times as many ships would be required as if American coal were used. It is a question of distance of the coal supply from the field of operation.

Mr. Kelley. In ordinary times you can use a little inferior coal

over there without carrying the coal so far.

Secretary Denby. It is not economical; it is an absolute loss to use that coal.

Mr. Kelley. You have not given it any consideration until to-day? Secretary Denry. I have heard enough here to-day so that I would not want to go before the American people and make the statement that we were going to use inferior coal that would require refueling the ship more frequently.

Mr. Kelley. What kind of coal are you using?

Admiral Robison. Pocahontas for one.

Mr. Kelley. Digging it out of the American soil makes no differ-

Secretary Denby. It has been demonstrated that the Japanese coal is inferior.

Mr. Kelley. Are we using any coal at all from any mines in the United States of as poor quality as the Japanese coal?

Admiral Robison. No; there is not any, except in Illinois. That is the coal you use in Detroit.

Mr. Kelley. Are you using any Illinois coal? Admiral Robison. On board ship?

Mr. Kelley. Anywhere. Admiral Robison. Yes, sir.

Mr. Kelley. Where are you using it? Admiral Robison. On the Great Lakes.

Mr. Kelley. Where else?

Admiral Robison. Nowhere that I know of.

Mr. Kelley. Where is the best coal?

Admiral Robison. The best coal comes from the Pocahontas region of West Virginia.

Mr. Kelley. Do we not use Pennsylvania coal?

Admiral Robison. Yes, sir; some.

Mr. Kelley. Is it the same kind of coal?

Admiral Robison. It is not identical. There is some variation in the heat units.

Mr. Kelley. What are the British thermal units of Pocahontas coal ?

Admiral Robison. Up to 15,200.

Mr. Kelley. And of the Pennsylvania coal?

Admiral Robison. Up to 15,000.

Mr. Kelley. And the Japanese coal?

Admiral Robison. It will vary—11,000 and sometimes 12,000 and sometimes 8,000 or 9,000; there is a wide variation.

Mr. Kelley. Is there any variation in our own coal?

Admiral Robison. Yes, sir; but not so great.

Mr. Kelley. What is the variation? Admiral Robison. The minimum is 14,000 for naval use.

Mr. Kelley. And the maximum 16,000?

Admiral Robison. About 15,250 is the best. The Japanese oul is different in quality and character. You have to provide different grate bars and all that sort of thing, but it can be used. If you we Japanese coal, you require an additional number of firemen.

FUEL OIL.

Mr. Kelley. Now, fuel oil. How much fuel oil are you asking

Captain Leutze. We are asking for 5.524,456 barrels, cosing **\$11,949,398**.

Mr. Kelley. Does that provide for more ships in commission than we had last year?

Captain Leutze. For a less number of ships than we had be

Mr. Kelley. Last year you asked for 3,649,048 barrels. You are asking for 2,000,000 more barrels, in round numbers, for fewer ships. Is that right?

Captain Leutze. We are asking for fuel oil for these ships in

accordance with the operation plan.

Mr. Kelley. You are asking for 2,000,000 more barrels, in round numbers, than you estimated for this year and you will have fewer ships?

Captain Leutze. Yes, sir: 2,000,000 more than the committee

allowed in the revised estimate. The basis is different.

Mr. Kelley. I understand that. Please give us the details of the Captain Leutze. The details of that are that all the ships stem 16.200 miles less than those which I enumerated this morning. summary of those is on this first page of the small sheets.

Mr. Kelley. Just run down that list if you please.

Captain Leutze. Battleships, first line, 768,691 barrels. Notice for battleships in ordinary.

Mr. Kelley. Just run down that list if you please.

Captain Leutze. Battleships, first line, 768,691 barrels. for battleships in ordinary.

Mr. Kelley. Is that because they burn coal?

Captain Leutze. Yes, sir; all in ordinary burn coal. Four cruiss, second line, they burn coal.

Mr. Kelley. We should reduce those cruisers to three?

Admiral Coontz. No, sir. Captain Leutze. Three light cruisers, first line, 177,957 barrels. Colonel Roosevelt. Those three light cruisers were not in comission last year?

Captain LEUTZE. No. sir.

Colonel Roosevelt. That is new, and so is the aircraft carrier.

Captain Leutze. Aircraft carrier, 58,355 barrels; 1 mine layer, 5684 barrels; 65 destroyers, active, 1,259,540 barrels; 50 destroyers, serve, 853,020 barrels; four light mine layers, 118,618 barrels; 84 bmarines, 179,553 barrels; 10 patrol gunboats, 53,051 barrels; 5 stroyer tenders, 166,359 barrels; 7 submarine tenders, 118,224 barls; 1 aircraft tender, 39,576 barrels; 7 oilers, 485,808 barrels; 2 amunition ships. 94,337 barrels; 5 cargo vessels, 213,212 barrels; 3 ansports, 276,340 barrels; 1 hospital ship, 59,346 barrels; 8 tugs, .371 barrels; 10 mine sweepers, 169,200 barrels; 4 auxiliaries, misllaneous, 82,194 barrels; 14 seagoing tugs for shore activities, 167,680 errels: 5 shore base submarine tenders, 60,799 barrels; 19 oil barges, ▶.520 barrels; making a grand total of 5,524,456 barrels.

Mr. Kelley. The destroyers are to go how many miles?

Captain Leutze. The destroyers, active, 16,200 miles and in rerve 12,000 miles.

Mr. Kelley. How much oil does it take to run a destroyer 100 iles at an economical speed 15 knots.

Captain Leutze. Two thousand six hundred and fifty-six gallons. hat is, 15 knots. They burn 398.4 gallons per hour, a little more ian six hours, or 63 barrels for 100 miles.

Mr. Kelley. Do you agree with that figure, Admiral? Does it ske that much oil to run a destroyer 100 miles, 60 barrels, at the conomical speed of 15 knots?

Admiral Robison. I judge that is not far wrong. It is about qual to the engineering standards, which standards are based upon the best performances of vessels of that class under ordinary cruisg conditions. They do not have to break a record to do that. Mr. Kelley. That is, they could run on less oil?

Admiral Robison. I believe that if every ship were in first-class ape in all particulars, if the personnel were thoroughly trained in I details, and if the weather were perfectly good all the time, that ev would run for less.

Mr. Kelley. How much did these destroyers of Admiral Strauss

Admiral Robison. The best division of six destroyers got about per cent better, 23 gallons per knot. This is 24.5.

Mr. Kelley. After they had followed out all of your instructions? Admiral Robison. Yes, sir. In past practice the results have not en so good as this. In 1913 we did not know much about it. We d oil burners and they used per knot 39.72 gallons, practically a ll barrel. This estimate is based on 24.5 gallons per knot. In 21 they used 31.34 gallons per knot. The first half of this year average was 30.86 gallons per knot. The performance of these strovers out in Asia at low speed was twenty-three and a fraction

gallons, which is a little bit better than this. The performance with the average destroyer next year will not equal the efficiency upon which this figure is based.

Mr. Kelley. This would be a fair amount to base it on, 60 barrels

for 100 miles!

Admiral Robison. I am of the opinion that they will use fully that much on the average next year. I should hope at the end of the year that they would be running on 58 barrels.

Mr. Kelley. You said that he did very much better out there and

that there was a saving of about 50 per cent?

Admiral Robison. No, sir; that was the saving made on the port consumption. Of course, the port consumption was very material; he cut that in two.

Mr. Kelley. On the destroyers?

Admiral Robison. Yes, sir. Mr. Kelley. How much do you figure it would take to lay up a destroyer in port every 24 hours?

Admiral Robison. You mean if out of commission?

Mr. Kelley. No.

Admiral Robison. Kept in full commission?

Mr. Kelley. Yes, sir.

Admiral Robison. In port in 1913-Mr. Kelley (interposing). A destroyer?

Admiral Robison. I am talking of a destroyer. In 1913 it was 48.06 gallons per hour. In 1921 it was 48.30 and the first half of this year it has been cut to 35.

Mr. Kelley. Eighteen or nineteen barrels a day?

Admiral Robison. Somewhere around 20 barrels a day. While 1 vessel is at yard undergoing repairs it will receive from the yard certain electric light, power, and water, and its consumption can be expected to fall to approximately 25 gallons per hour, 600 gallors a day.

Mr. Kelley. Twelve or fifteen barrels?

Admiral Robison. Around that. I should anticipate that next year, if you have 65,000 men only, that we will be able to put of these destroyers sufficient officers to take care of them properly to properly govern the actions of the men that run the ship. We will have a little bit better trained men. I therefore anticipate the next year the port fuel consumption of destroyers may become low as 30 gallons an hour; that is, 720 gallons a day. That is about I think that is about what it will come to for the 15 or 16 barrels. average destroyer at the end of next year. With the decrease personnel to 65,000 and without a cut in the number of officers-

Mr. Kelley (interposing). You can put more officers on the * stroyer and they can take better care of the machinery and and

out your instructions?

Admiral Robison. Instead of having one officer doing engineers duty I anticipate that they will have two, and the result will be is we will have better enforcement.

Mr. Kelley. Much more efficiency?

Admiral Robison. I think if we had more officers on the boat # would have a more efficient boat.

Mr. Kelley. That is, if you undertook to run more destroyed than you had officers to take care ofAdmiral Robison (interposing). Experienced officers.

Mr. Kelley. The cost of operation would increase? Admiral Robison. It is bound to. That is responsible in no small asure for the recent high cost of operation of all classes of naval. ssels, a lack of training of the officers, primarily the officers, and

o of the men.

Mr. Kelley. The engineers on these boats are petty officers? Admiral Robison. No, sir; commissioned officers.

Mr. Kelley. I know that there are commissioned officers, but do t the petty officers really operate the engine room? Admiral Robison. We have not really the habit of regretting it ien we get our hands dirty.

Mr. Kelley. You have allowed 1,259,540 barrels for 65 destroyers

active commission?

Captain Leutze. Yes, sir.

STEAMING AND PORT CONSUMPTION OF OIL.

Mr. Kelley. How do you divide that 1,259,540 barrels of oil as tween steaming and port consumption?

Captain Leutze. We took for port consumption per day 1.218 llons. That figure was obtained by taking the reports received in erations from 259 destroyers and getting the average.

Mr. Kelley. How many barrels would that be in port per day?

Captain Leutze. Twenty-nine barrels.

Mr. Kelley. Admiral Robison says that out in Admiral Strauss's vision, where he has been watching the matter very carefully, they we cut the consumption down to 18, so that you are allowing for pretty liberal consumption there. That would run into quite a f of money. They would be about 300 days in port, would they t? How do you divide the time between port and sea? Captain Leutze. This time has not been fixed, but a formula is

ing worked out for it.

Mr. Kelley. Give it roughly; we will not be technical.

Captain Leutze. It is the number of hours in a year that we subt plus the number of hours in port. It is 50.7 per hour in port. Mr. Kelley. Steaming 100 miles every third day would give you y 6 hours out of 72 hours.

Idmiral Robison. It averages more nearly 45 days under way 1 320 days in port for destroyers. Battleships steaming at 12 ets would be underway 561 days and 3081 days in port. Deyers steaming only 12,000 miles would be underway 33½ days and

Port 3323 days.

Ir. Kelley. On the basis of 320 days in port, you figure 29 rels of oil per day for each one of these destroyers. That is figure, but if you estimate 18 barrels per day, it would be a vastly erent figure. Which figure do you think we could safely adopt Possibly we could split the difference between the two. Admiral Coonty. No, sir; they have taken the average for 259 trovers for the year and for the past six months. Admiral Robihas presented you with figures based upon only six destroyers, and se the best we have. They were the ones that could make long ises, and it is possible that they made that record. I do not doubt t all, but the others can not do that.

Mr. Kelley. They are all new boats?

Admiral Coontz. No, sir; they are not all boats of that character, and I do not think that Admiral Robison will tell you that we could go on the basis of the fuel consumption of those 18 destroyers. We have the absolute facts down to the 1st day of January for the 29

destroyers.

Mr. Kelley. Admiral Robison said that he had issued instructions which he thought would make quite a difference when followed out. He said that they had been tested out by Admiral Struss with very fine results, and he makes the point now that, possibly, with not so many destroyers operating, and with a little closer supervision, a very great reduction in the port consumption of fuel could be brought about. You could, at least, go below the consumption for the past six months, because you will be getting the whole thing better in hand and stronger all the time.

Admiral COONTZ. What we are talking about has been going on for years. It is not a new thing, and Admiral Robison read the figures for 1913 and 1914. We have been coming down all the time, and we have the actual facts as to 259 destroyers up to January!

Mr. Kelley. If Admiral Strauss can handle the destroyer in port on 18 barrels of oil per day, you will not ask us to give value 29 barrels per day for the rest of the outfit for 320 days in port.

Colonel ROOSEVELT. What was the total estimate?

Captain Leutze. One million two hundred and fifty-nine thousand five hundred and forty barrels.

Admiral Coonty. We keep a card for every destroyer.

Mr. Kelley. I have no doubt of that, and I do not question the accuracy of the statement that during this year your destroyers used that amount of oil. In fact, I possibly have complained a little about that, but I was not complaining about anybody personally. But now, when we are up against this proposition, and when Admiral Robison says that Admiral Strauss cuts this consumption down to 18 barrels per vessel, I do not know whether Congress will be willing to give you 29 barrels for each of your destroyers in port of day.

Admiral Coonty, Admiral Robison, have you gone over the

figures!

Admiral Robison. I will be glad to do so.

Mr. Kelley. That is the experience of the past six months. Admiral Coonty. These are the Asiatic ships that we are taking about.

Mr. Kelley. Of course, if Admiral Robison has made any end about it—

Admiral Robison (interposing). I have not made any error about it. I have not said what they have done, but I said what the reports show, and I believe that the reports are absolutely comes.

Mr. Kelley. Do you not think that with fairly good supervision or with the supervision that the other submarines had, and with constant hammering of these officers to follow your instructions the same thing could be done at San Diego?

Admiral Robison. In time.

Mr. Kelley. What would be a fair allowance to make for the inexperience of the boys at San Diego as against the experience of those under Admiral Strauss?

Admiral Robison. I am of the opinion that the destroyers at San ego that are operating on the 50 per cent basis are using less

ol in port than those with the division.

Mr. Kelley. We are saving money to-day "to beat the band." Admiral Robison. There is no question about it. If you take those per cent boats and bank them together, as they are now doing, with ir or five side by side, and let one of them supply steam to the ters by means of a pipeline from the one that is steaming to all others, then you will supply four or five of them with steam th only one of the boilers radiating heat and you will be able to re a great deal. That is one way in which we have been saving a eat deal of fuel oil. Most of these 50 per cent destroyers have ently been ordered out of commission, so we can not expect much ring in this way next year.

Mr. Kelley. In the last six months at other places that was not

Admiral Robison. That has been done in the case of those operaton the 50 per cent basis.

Mr. Kelley. Out there?

Admiral Robison. And in Charleston, also.

Mr. Kelley. In the early part of this year those boats were not ndled that way?

Admiral Robison. No. sir; we had not furnished them the equipnt.

Mr. Kelley. Now, we have passed that stage, and we have acired the experience and understand the problem. I think the main ng was the problem. Sometimes when a result is obtained no one ows what the problem is, and that knowledge does not come until u have wasted some money. Suppose we split the difference been 18 and 29?

Admiral Robison. Suppose you give more than they should use? ev will not use it.

Mr. Kelley. Yes; they would. Admiral Robison. I do not believe they would.

Mr. Kelley. Those destroyers with 50 per cent crews on board are a position where they can do a lot of steaming, and I do not bere that anybody in the Navy Department could keep track of ir daily steaming.

Admiral Coontz. Absolutely, hour by hour.
Admiral Robison. Not only that, but we do keep track of it.
Admiral Coontz. We keep track of it every hour.

Admiral Robison. I can show you that the way they are doing it

much better than you imagine. Secretary Denny. They report the exact number of gallons of fuel d during every month, and a summary of it is sent to the departnt. I went into that on shipboard, and when we reached the end the voyage we knew exactly not only how much fuel was conned each day but how much was consumed during each watch I each hour of the day.

Mr. Kelley. Admiral Coontz would not know until the report

ne in, perhaps, several months later.

Secretary Denby. They can tell which watch makes the better ord on fuel consumption.

Mr. Kelley. When you allocate the fuel you can hold them pretty well in check, but when they are having summer maneuvers and have enough men on board to navigate the ship I doubt if the admiral could tell at any given time just where those ships were.

Admiral Coontz. I know daily what they are doing, and the reports I am referring to are the ones on which is determined the standing of the commanding officer, as well as many other questions. including that of prize money.

Mr. KELLEY. I know, but while the ship is actually going do you

know exactly how much oil she is using or is going to use?

Admiral Coontral I do at the end of the month, or when the returns come in

Mr. Kelley. You do not get that information every day, but you have to leave that to the discretion of the commander of the ship.

Secretary Denby. But the commander wants to make a record for

himself and for the ship.

Mr. Kelley. Well, what would you say about this, Admiral? Admiral Robison. The way they are doing it out in Asia is to comply with some orders that have been issued by Admiral Coont. which have placed them upon a specific fuel allowance for all purposes. In the case of the destroyers under Admiral Strauss they have saved 762,357 gallons on their allowance.

Mr. Kelley. They did not use up all the oil?

Admiral Robison. No, sir; they did not use it. That is what I wanted to say.

Mr. Kelley. They did the work all the same, but saved that much

oil 🖁

Admiral Robison. If you allow them too much they will not waste We are not wasters of Government money.

Mr. Kelley. Admiral Strauss was over there-

Admiral Robison (interposing). He could get away with it. if anybody could; but he would not do that, and not one naval offer that is in authority would do that.

Mr. Kelley. But there are circumstances sometimes in which you can not quite control it. You do not always have old experienced

officers like Admiral Strauss in charge of them.

Admiral Coonty. He is not in charge of the destroyers, but he's The officer in charge of them is a voung man. Me-Dowell is in charge of them, and you know him. They are all the same, and they are not cruising around for nothing. They are trying to bring the fuel consumption down as much as they can, because it helps their own records.

Mr. Kelley. How about the battleships? For the active battle ships how do we divide the time up as between steaming and in port!

Is it 320 days in port and 45 days at sea?

Captain Leurze. We base it on 365 days in the year.

Mr. Kelley. That would be 40 and 320.

Captain Lettze. 56.25 at sea and 308.75 in port for battleships. Mr. Kelley. Is that the way you divide it as to the destroyers! Captain Leutze. No. sir. Destroyers would be 45 days steaming and 320 days in port for the 65 active boats.

Mr. Kelley. What is your experience about the amount of oil that

a battleship ought to use in port?

Admiral Robison. It depends very much upon the design of the

Mr. Kelley. Well, let us take some particular ship.

Admiral Robison. The best that we have is running slightly under

Mr. Kelley. Let us not take the best.

Admiral Robison. The average is running about 15 tons.

Mr. Kelley. 15 tons for 24 hours would be how much?

Admiral Robison. That would be approximately 105 barrels per

Mr. Kelley. How much have you figured on a battleship using in

port?

Captain Leutze. It varies from 86 barrels to 190 barrels for port

consumption.

Mr. Kelley. Then, you have not gone far out of the way on that. Γhe Admiral said 105.

Captain Leutze. I am giving this from reports sent from indi-

ridual ships.

Admiral Robison. You had better take his estimate instead of nine, because I am saying what could be done, in my opinion, and he ias the actual reports.

Mr. Kelley. The destroyer proposition is the big oil problem. Vhat is your opinion as to the proper oil consumption in running a

attleship?

Admiral Robison. I happened to be the commander of a coal ourner, and my opinion would probably not be a satisfactory one.

Mr. Kelley. How many barrels of oil do you figure per 100 miles per battleship, or how much would be required for steaming 24

Captain Leutze. That varies from 498 to 823 barrels per day of 4 hours steaming. The larger battleships have the better records. The record of the New Mexico, for instance, is particularly low. t has a pretty low average consumption for 12 knots. The others re higher.

Admiral Coontz. The New Mexico won the pennant. Captain Leutze. The Pennsylvania is higher.

Mr. Kelley. That is one of the medium-sized ships?

Captain Leutze. Yes, sir.

Mr. Kelley. Now, as to the destroyers in reserve: What do you igure them at?

Captain Lettze. At 12,000 miles or 1,000 miles per month.

Mr. Kelley. You are not going to make that mileage with the

lestrovers in reserve, are you?

Admiral Coonty. Destroyers operating with 50 per cent complenents must be assumed to do a normal cruising average one-half hat of the active destroyers operating with the fleet. This is the ninimum steaming which will maintain efficiency and carry on a part of the regular target practice and the engineering runs. addition to this normal steaming of 8,000 miles, the eight active lestroyers in the Near East and 12 of the destroyers in the Asiatic nust be relieved by vessels from the reserve destroyers in home vaters, and the necessary steaming to accomplish these reliefs will ncrease the average steamed by the destroyers in reduced commission to more than 12,000 miles. A figure of 12,000 miles can be accepted as a minimum average mileage for the destroyers with 50 per cent complement. That is the reason we have given you that figure.

Captain Leutze. They actually do 8,000 miles per annum, and

the extra 4,000 miles is to cover the reliefs in foreign waters.

Mr. Kelley. How many days will they be in port? Comander Hill. It will be half of the other number.

Mr. Kelley. You would have 22½ days at sea and 327½ days in port. When in port the figure, of course, would be the same as in the case of the others!

Captain Leutze. No. sir. Thirty-three days steaming: 332 days

in port for the destroyers with 50 per cent complement.

Mr. Kelley. And when they are at sea that figure would be the same as the figure for the others at sea?

Captain Leutze. Yes, sir: the same speed.

Commander Hill. This is the way they were figured: There are 50 boats steaming 8,000 miles apiece, making 400,000 miles. Then there are eight boats in the Near East which have to be relieved next year, making 5,400 miles for the eight going over and for the eight coming back. There are also 12 destroyers on Asiatic station that are to be relieved during the next fiscal year. Dividing this extra steaming among all 50 destroyers in reserve increases the mileage basis to an average of more than 12,000 miles.

Mr. Kelley. Of course, if we should conclude that you are proposing a larger steaming program than Congress wants to pay for you would have to readjust your operating plans to meet the situs-

tion, would you not?

Admiral Coontz. I think the Secretary would have to put certain

ships out of commission to carry it out.

Mr. Kelley. If Congress concluded that 16,000 miles a year was more than they wanted to pay for, you would still keep up that rate on all that you had in operation, and rather than run, say, 15,000 miles or 12,000 miles a year, you would put ships out of commission?

Admiral Coontz. I would not say that positively, but that would be a question that would have to be very carefully considered. If we found that we did not have enough money to do the steaming and the target practice that would keep those ships to the tiptop notch. I think the Secretary would have to consider the question of whether or not he would put some of them out of commission.

Mr. Kelley. Of course, you do change your operating plans ever

little while to meet conditions?
Admiral Coontz. Yes, sir.

Secretary Denby. It just happens that in 1916 our operating plans for the vessels called for approximately or almost exactly the

same amount of steaming.

Colonel ROOSEVELT. The steaming in maneuvers is a very small part of the fuel appropriation, and that, I think, is what probably guided the admiral in making his last statement about putting ship out of commission. Speaking offhand and without being absoluted accurate, I think about \$5,000,000 of the \$17,000,000 is for maneuver and \$12,000,000 represents fixed charges or port charges.

Mr. Kelley. I suppose, Admiral, it is necessary to run these mine

sweepers next year 30,000 miles apiece?

Admiral Coontz. Yes, sir.

Mr. Kelley. They are tugs, are they not?

Admiral Coontz. They are tugs that tow and do every sort of an d job that comes their way.

Mr. Kelley. What is the speed of a tug?

Admiral Coontz. This is figured at 10 or 12 knots, but when they towing that would be brought down.

Mr. Kelley. I want to see how many days these mine sweepers ould have to go.

Captain Leutze. Twelve knots is taken as the average.

Mr. Kelley. If they went 100 miles that would be eight hours.

Captain Leutze. Eight and one-third hours, sir.

Mr. Kelley. And you want them to go nearly twice as far as the ttleships and they have about half the speed?

Captain Leutze. When they are towing they burn a great deal

ore fuel.

Mr. Kelley. Do not mix up the situation. I am talking about the stance. You are providing that these mine sweepers shall go .000 miles apiece and they only go 12 miles an hour.

Commander Hill. That is just an approximation.

Mr. Kelley. That is what you are asking, so there is no use talking out approximations.

Commander Rowcliff. They might only go 15,000 miles, Mr. nairman.

Mr. Kelley. Then you would not need to have them placed on the sis of 30,000 miles.

Commander Rowcliff. Yes; because she would be dragging someing behind, and that would burn up the extra fuel.

Admiral Coonty. She is towing a part of the time.

Commander Rowcliff. And of course when she is towing she does of go 12 knots; she may only be going 5 or 6 knots, but she is burng fuel for 12 or 13 knots.

g fuel for 12 or 13 knots. Mr. Kelley. So when you asked him to figure on the basis of 1,000 miles for the mine sweepers you did not intend that they ould travel 30,000 miles?

Commander Rowcliff. They would not go 30,000 miles.

Mr. Kelley. What do you need to drag behind them? Nothing it a rope or chain to sweep up the mines?

Commander Rowcliff. They have drags behind them when sweep-

Mr. Kelley. What else do they drag?

Commander Rowcliff. Barges.

Mr. Kelley. You have seagoing tugs here that are going to go

1.000 miles apiece?

Admiral Coontz. These are shown under the heading of mine reepers: 2 of them are mine sweepers, 7 are fleeting towing boats, d 1 is an air tender at San Diego. The fleet towing is pracally a continuous performance, the towing of targets and things that character right straight along. In that way they serve the et. A battleship does not tow a target. We have a smaller vessel do that, so that these vessels are continuously occupied. We have of them this year, and we are only counting on 7 next, so just tak of the added duties for that number.

Mr. Kelley. Why do you put them down as mine sweepers?

Admiral Coontz. Because they are carried that way on your book. Commander Hill. They have been referred to as mine sweeper all along.

Mr. Kelley. We did not make the name "mine sweepers" here. Commander Hill. No: but that is the way we have been talking

about them during the last few weeks of the hearing.

Mr. Kelley. But they are not mine sweepers.

Admiral Coonty. They are all mine sweepers. Two of them are being used as mine sweepers and seven are being used as fleet tug.

Mr. Kelley. And the reason they have to go 30,000 miles is because

they go back and forth?

Admiral Coontz. They tow ships, barges, lighters, targets, and all sorts of things for the battleships, as well as any job that is given them. As I say, this year we are using 19, and we have reduced that number to 7, and you can imagine the added work they will have.

Mr. Kelley. Have you been running these tugs 30,000 miles a

year in the past!

Admiral Coontr. I think we undoubtedly have, or we would not

have made that figure.

Commander Hill. Not 30,000 miles exactly, but it is that amount of fuel that will be expended; we know it will take that amount if those boats go 30,000 miles, and we figure it will take that amount of fuel; although they may not go that mileage they will use the fuel. That is just the fuel estimate and that mileage is given in order to help Supplies and Accounts as to some basis on which to figure their fuel.

Mr. Kelley. Is there not any basis which can be formed on ex-

perience!

Commander Hill. Yes, sir: and if you would like to have it, we could insert it in the record. The amount of fuel those types of craft burn per vessel was all taken into consideration when this was made up, and that could be inserted in the record if you desire.

Mr. Kelley. We do not want to bother you too much.

All right. Transports, 75,000 miles, three times around the world

Admiral Coontz. Yes, sir.

Mr. Kelley. Could they go three times around the world if they kept going all the time?

Admiral Coontr. Oh, yes.

Mr. Kelley. How long does it take to go around? What is the

speed of the Hancock?

Admiral Cooxyz. Let us take an average. I think it is figured at 12 knots an hour, or 12½, or 300 miles a day; and it is, say, 2100 miles around the world, or 70 days, and three times 70 is 210.

Mr. Kelley. It used to be 25,000 miles around the world when!

was a boy.

Admiral Coontz. That was land miles, Mr. Kelley, but it is my 21,600 sea miles around the world. That would give 150 days port and 210 at sea for the transports, and that is a pretty god average.

Mr. Kelley. That is to go around once?

Admiral Coontz. Yes, sir.

Mr. Kelley. But if you went around three times-

Admiral Coonty (interposing). I said 3 times 70 would be 210, and that would be 3 times around, and there would be 150 days

left in port.

Colonel Roosevelt. May I draw attention to another fact? think Mr. Byrnes was talking particularly about assembling the men who were to be discharged and bringing them back. Now, how do you bring them back? By transports?

Captain Leurze. The Chaumont is actually making a trip at that

rate now.

Mr. Kelley. Three times around the world?

Captain Leurze. At that rate; yes, sir. We were looking her up very particularly the other day, and we found she would be able to make three trips comfortably in a year.

Mr. Kelley. Do you have to carry three shifts of men on these transports, and is that the reason why you must have so many men?

Admiral Coontz. No.

Mr. Kelley. If these ships sail for the time you suggest, you would have to have three crews.

Admiral Coontz. I do not believe I catch what you are talking

i bout.

Mr. Kelley. The boys could not work 24 hours a day, you know? Commander Rowcliff. They all have watches in the fireroom; they all stand from three to four watches in the fireroom, and on leck, too, so far as that goes.

Mr. Kelley. In commerce, you know, you must have three full rews for ocean traffic, so that the boys work eight hours, when another shift comes on and works eight hours. You do not work

your men any more than that, do you?

Commander Rowcliff. Ours do not belong to the union.

Mr. Kelley. I am asking whether you work your boys longer than ≥ight hours a day?

Admiral Coontz. Yes:

Mr. Kelley. Every day?

Admiral Coontz. But not normally if we can help it.

Mr. Byrnes. You do not mean eight consecutive hours? Admiral Coontz. No; four hours on and four hours off. I have Ione it myself many a day.

Mr. Kelley. Do you not have the sailing of these ships pretty

igh—75,000 miles?

Admiral Coonty, No. sir; not for one minute. We only have hree of them left, and we can show you what they are actually loing. This gives them 150 days in port. What would an ordinary Ther do with 210 days at sea and 150 days in port? That is nothing Or a transport, and they all have long distances to travel: for intance, from New York to San Diego, to Honolulu, and so on.

Commander Hill. This is figured on exactly what they are doing

O-day.

Admiral Coontz. This very minute.

Mr. Kelley. What do you mean by saying on exactly what they Te doing to-day! What is it!

Commander Hill. We have two transports running between here Ind the Philippines and back again.

Mr. Kelley. In what time! What do you mean by to-day!

Commander Hill. We count on them making one round trip be tween the Atlantic-Philadelphia or Norfolk-and Manila and back again every four months, three round trips between Norfolk and Manila during the year. That is the basis.

Mr. Kelley. How far is it from Norfolk to Manila?

Admiral Coontz. About 12,000 miles, I guess. The run from New York to Bremerton is 6,039 miles, and the run from San Francism to Cavite and return is 13,716 miles, half way around the world and

Mr. Kelley. So they go around every three months?

Admiral Coontz. Every four months, and I do not think that is at all high.

Commander Hill. They actually do it in three months, and then

they have two weeks at each end.

Mr. Kelley. Which one is doing that?

Commander Hill. Both the Chaumont and Argonne are doing

Mr. Kelley. What is the other one doing?

Commander Hill. The other one is right now in the West Indian service.

Admiral Coonty. The Henderson is making round trips right along with the marines.

Mr. Kelley. Making trips to where?

Admiral County, Santo Domingo and ports of that character. Mr. Kelley. How many miles has she sailed in the last four

months? Commander HILL. She is working on pretty nearly a basis of that

kind. Captain Leutze has the exact figures. She is making shorter runs, but making more of them. She is looking out for the marine in the West Indies. We can insert in the record what her mileage is for the last six months, and I think you will find it is about an average of this, as we went into that very carefully.

Commander Cobey. The Henderson is making about the same mik-

age as the Argonne and Chaumont.

Mr. Kelley. What is the speed of the Henderson? Commander Hill. She averages about 12 knots.

Admiral Coontz. I think her economical speed is 12 knots and we have ordered them to make an economical speed.

Mr. Kelley. Will your ammunition ships have to run 50,000 mils

a year!

Admiral Coontz. Yes, sir: and they are doing it now. They are carrying ammunition to the Pacific and to Cavite.

Commander Coвey. Fifty thousand miles for the ammunitis

ships.

Admiral Coonty. The steaming of the Pyro for the first is

months of the year is 26,182 miles, estimated.

Commander Hill... The situation as to those boats is that we have a great amount of ammunition and ordnance material which been stored on this coast for a long time and we have not been see to get commercial vessels to transport that material on account the risk, and now that we have these ships we will keep them running

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between this coast and the west coast in hauling supplies to the west coast, Pearl Harbor, and those places which need supplies, mines, etc.

Mr. Kelley. It is to distribute your ammunition where you need

Commander Hill. Yes, sir; we have just gotten them.

Mr. Kelley. Just how did you use oilers? Do they bring the oil to the ships or from the refineries to your depots?

Admiral Coonty. They do about four separate things. Will you

tell them exactly, Commander Cobey?

Commander Cobey. Of the oilers on the Atlantic coast two are engaged in carrying oil to the fleet at Guantanamo, and there are two, one a large one and one a small one, engaged in carrying oil from Port Arthur to places where it is consumed on this coast or from Fall River. However, we have just finished that contract so that there will be no more ships out of Fall River. That makes four on this coast. One is engaged in carrying oil to the vessels in European waters; there are three with the Pacific Fleet engaged in carrying oil from the refineries in the vicinity of San Francisco and Los Angeles, where the pipe-line terminals are, to San Diego and to the fleet, wherever it is along the coast, to Puget Sound and to Pearl Harbor.

Mr. Kelley. How much oil will one of them hold?

Commander Cobey. They vary from 55,000 barrels to 70,000 barrels; the average is about 62,000 barrels.

Mr. Kelley. What part of the oil do you suppose is taken on board

the ships from the oilers?

Commander Cobey. Practically all of it.
Mr. Kelley. It is all carried out to the fleet?

Commander Cobey. Yes, sir.

Mr. Kelley. Sometimes a short distance and sometimes wherever the fleet is?

Commander Cobey. I thought you meant whether the vessels go alongside a dock, but none of the larger ships go alongside a dock.

Mr. Kelley. You pump the oil from the oilers into the large ships even though the oil is taken on board right in the same harbor?

Commander Cobey. No; they use barges there; they do not use oilers.

Mr. Kelley. You do not use oilers except where the ships are some distance from the storehouse?

Commander Cobex. When the ships are some distance away or where there is a large group of vessels, but when there are only one or two and they are in one place it does not pay to use an oiler.

Captain Leutze. When the fleet is in New York we have to use all the barges we can get from the oil companies in addition to the

oilers, because there are not enough barges.

Mr. Kelley. You would probably say that the bulk of the work of the oilers would be in carrying the oil from the refineries to your storehouses, would you not?

Commander Cobey. In normal times there is just about as much oil carried to the vessels of the fleet, wherever they are—that is, throughout the year—as there is to storages. At this time of the year on the Atlantic coast all of the oil that is used is brought in

oilers, but when the fleet is along the coast there is much less carried in oilers.

Mr. Kelley. Would you say it took one oiler to take care of the

oil for every one battleship and four or five destrovers?

Commander Hill. I do not believe we figured it just that way: it is just a matter of tonnage capacity, etc. It depends on where they get their oil.

Mr. Kelley. It depends on where the ships are and how far they

have to go for oil?

Commander Hill. Yes; it involves a lot of variables, and we

could give them to you for any set of ifs.

Mr. Kelley. If the battleships on the Pacific are in port 320 days.

what ports would they be in?

Admiral Coontz. They would be in Puget Sound, San Francisco. San Pedro, and San Diego; and if we had the necessary fuel they would go to Hawaii once in awhile, and if we had a lot more fuel they would sometimes have joint maneuvers with the Atlantic Fleet.

OIL RESERVES.

Mr. Kelley. Where is the oil on the Pacific coast stored?

Admiral Coonty. We get most of it at that place north of San Pedro. What is the name of that place?

Commander Coney. Port San Luis; and we do not get any at San

Diego now.

Admiral Cooxtz. Do we get any at San Pedro?

Commander Coney. Yes, sir.

Admiral Coontz. Then, we get it at San Pedro and San Luis.

Commander Coney. And San Francisco.

Mr. Kelley. How many of the oilers will you have in the Pacific's Admiral Coonty. I will have to look at my list and see. I have it in the record, but I do not remember.

Captain Leurze. They said there were two to operate across the

Pacific.

Mr. Kelley. You do not need but two in the Pacific?

Admiral Coontz. Three with Pacific Fleet, one with Asiatic Fleet and two in naval transportation service in the Pacific.

Mr. Kelley. If you have 10 oil-burning battleships in the Pa-

cific----

Admiral Coontz (interposing). We will have 12, sir.

Mr. Kelley. Twelve oil-burning battleships in the Pacific?

Admiral Coontr. Before we get through.

Mr. Kelley. And 38 destroyers? Admiral Coontz. 19, 19, 19, and 8.

Mr. Kelley. And 38 would be in the Pacific?

Admiral COONTZ. No; there would be 19 in China, 19 in the Pacific, 19 in the Atlantic, and 8 in the European detachment. Of course we must have oilers in connection with them, and of the 50 we are going to have in 50 per cent commission a part of them will be in Charleston.

Mr. Kelley. Have we any storage at Charleston?

Admiral Coontz. The storage at Charleston is extremely small, is it not?

Commander Cobey. Yes, sir; the storage at Charleston is 36,000

Mr. Kelley. That would not last very long? Commander Cobey. No, sir.

PRICE OF OIL.

Mr. Kelley. At what price do you figure this oil?

Captain Leutze. \$2.163 per barrel.

Mr. Kelley. What are your contracts for next year? Take them n the Pacific first.

Commander Cobey. \$1.50 at San Francisco and San Pedro, \$1.65

t San Diego, \$1.88 at Seattle, and \$2.15 at Pearl Harbor.

Mr. Kelley. How could that average what you gave there? Commander Cobey. That is for the west coast only, sir.

Mr. Kelley. What will that average be?

Commander Cobex. That average is \$1.816 with the average bargig charge \$0.187 included.

Mr. Kelley. The bulk of your oil will be delivered at what point? Commander Cobey. At San Pedro.

Mr. Kelley. How many barrels there?

Commander Cobey. One million four hundred and eight-five thouind to be delivered.

Mr. Kelley. And you get it there at \$1.50 a barrel?

Commander Cobey. Yes, sir. One dollar and fifty cents per barrel longside dock, or \$1.687 in barges.

Mr. Kelley. How many barrels at San Diego?

Commander Conex. Four hundred and seventy-five thousand two undred barrels to be delivered.

Mr. Kelley. How many barrels at Bremerton? Commander Cobey. Two hundred and sixty-seven thousand three undred to be delivered.

Mr. Kelley. How many at Hawaii?

Commander Cobey. Three hundred and fifty-six thousand six hunred and forty-six to be delivered.

Mr. Kelley. Do you send the oil by freight to Hawaii?

Commander Cobey. Most of it in the past has been delivered by ommercial tankers.

Mr. Kelley. You would not expect to do that this year, would ou, Admiral?

Admiral Coontz. Yes, sir.

Commander Cobey. We will not have sufficient tankers, with only even left in commission, to send oil to Hawaii.

Mr. Kelley. How many trips would you have to make to Hawaii deliver the oil you would need there for a vear?

Commander Cobey. There would be about six trips of a commeral tanker.

Mr. Kelley. Would not that be cheaper than paying freight? Commander Cobey. You mean if a naval tanker were used? Mr. Kelley. Yes.

Commander Cobey. Seven tankers will not allow us enough to ad oil there.

Mr. Kelley. Would eight be all right?

Commander Cobey. I should think that with eight it could done, yes, sir; one tanker can more than take care of Hawaii.

Mr. Kelley. Why do you have to have so much at Bremerton? Commander Cobey. Well, there is always a varying number of ships there for repairs.

Mr. Kelley. That is based on the plans of the chief of operation: Admiral Coonty. The battleships have to go there twice a ver to dock.

Mr. Kelley. You have a fine dock there and a fine yard for making repairs?

Admiral Countz. Yes, sir.

Mr. Kelley. And pending the time when we can put Mare Island the channel, and everything, into shape you can get along very confortably there and do all of your docking?

Admiral Coontz. Yes, sir; we have got along for the battleship

now on the west coast, but not comfortably.

Colonel Roosevelt. Not very comfortably, because according to

your figures you have a very small margin of safety.

Admiral COONTZ. That is very true, but we can get along at presen with the present number on the west coast if nothing happens.

ESTIMATED CONSUMPTION OF OIL.

Mr. Kelley. How many barrels of oil are you figuring for the Atlantic coast?

Commander Cobey. Based on the present distribution, we are

figuring on 2,405.710 barrels on this coast.

Mr. Kelley. What do you want that for? Where does that go. and for what ships?

Commander Cobey. That is on the basis of the present consumption on both coasts.

Mr. Kelley. I thought you were figuring on the list which the

admiral gave you.

Commander Cobey. Well, we are figuring on the location of the ships as at present. The number, however, is in accordance with

Mr. Kelley. Suppose you figure the way he figures now, would that change your figures?

Commander Cobey. No, sir.

Mr. Kelley. It would only give you eight in the Atlantic.

Commander Coney. No; 19 on the Atlantic coast and 8 in the European station, I think was the statement.

Admiral Coontz. You are figuring exactly as we expect to have it and I gave you 19 in the Asiatic, 19 in the Pacific, 19 in the Atlantic and 8 in the European detachment.

Mr. Kelley. You are going to have 19 in the Pacific, 19 on the Atlantic coast, and 8 in European waters?

Admiral Coontr. Yes, sir.

Secretary Denby. And 19 in Asiatic waters?

Admiral Coontz. Yes, sir.

Mr. Kelley. What is the cost of getting oil delivered at Hampton Roads, if that is your chief storehouse?

Commander Cobey. At Hampton Roads it is \$2.60; that is the price we have estimated. On the west coast we can tell very we

what oil is going to cost year in and year out, as nearly as any market commodity can be gauged.

Mr. Kelley. Is that what this contract stood you up at Fall River

or somewhere near Boston?

Commander Cobey. No; that stood us \$3.70 delivered at Norfolk.

Mr. Kelley. And that contract is now out of the way?

Commander Cobey. Yes, sir; we have two other contracts still running which have to be set aside until we finish getting the oil under that contract, and we have taken the lower of those two.

Mr. Kelley. Where do you get this oil on the Atlantic coast? Commander Cobey. The points of delivery under the contract are

Port Arthur, San Diego, at Philadelphia, and New York.
Mr. Kelley. You buy it at Port Arthur and store it there? Commander Cobey. We buy it there, but there is no storage at Port Arthur.

Mr. Kelley. That is Texas oil?

Commander Cobey. No. sir; that is Mexican oil.

Mr. Kelley. It comes from Tampico?

Commander Cobey. Just now they are drawing it from the lower fields.

Mr. Kelley. You say there is no storage at Port Arthur?

Commander Cobey. There is no naval storage there.

Mr. Kelley. How do you happen to have it delivered there? Commander Cobey. Because that is where the large refineries That oil is mixed—that is, 60 per cent of Mexican oil is mixed with 40 per cent of Mid Continent oil and Texas oil, and in that way the fuel oil for the Navy is gotten.

Mr. Kelley. What did you say the price was?

Commander Cobey. \$2.25 at Port Arthur, \$2.60 at Norfolk, \$2.65

at Philadelphia, and \$2,65 at New York.

Mr. Kelley. Do you bring it from Port Arthur in your tankers? Commander Cobey. No; we only bring a part of it; whenever the ships are in small groups along the coast or single at navy yards it is delivered in barges.

Mr. Kelley. But the oil which is delivered to you at Port Arthur from the refineries you put into your own tankers and bring it up?

Commander Cobey. Yes, sir.

Mr. Kelley. So that cost is taken care of elsewhere and not out of this appropriatiton?

Commander Cobey. It is taken care of otherwise; yes.

Mr. Kelley. So that the Port Arthur price would really be the Hampton Roads price?

Commander Corey. The total oil used on this coast—

Mr. Kelley (interposing). Please answer the question directly.

Commander Cobey, No. sir.

Mr. Kelley. It would not be. Why would it not be if you bring it up yourself!

Commander Cobey. The cost at Norfolk of 163,000 barrels, it is

estimated, can be bought under contract-

Mr. Kelley (interposing). I am talking about your Port Arthur oil.

Commander Cobey. It would cost the same.

Mr. Kelley. As at Port Arthur, because you deliver it yourself?

Commander Cobey. Not all the oil is delivered by our own tankers. Our own tankers deliver only a part of it. Where there is a vessel at a given port and there is no tanker present, we draw oil from the shore, unless there is sufficient oil in storage, which is not generally

Mr. Kelley. What part of the Port Arthur oil is delivered by the

contractor to Norfolk?

Commander Cobry. At the estimated consumption of 2.405.710 barrels for the Atlantic and European stations together, 16335 barrels are to be delivered by the contractor at Norfolk, and over half of the whole oil—1,485,000 barrels—are estimated to be delivered to naval tankers at Port Arthur. We assume that there will be tankers enough. There is a tremendous difference in the price. We save 35 cents a barrel whenever we use our own tankers.

Mr. Kelley. This is going to reduce your expense quite a bit, the

difference in the price of oil? Commander Cobey. Yes, sir.

Mr. Kelley. This year there will be a great saving to you. What is the average price of oil, taking the oil as a whole on both coast! Commander Cobey. \$2.163.

Mr. Kelley. That is what you are asking for next year?

Commander Cobey. Yes, sir; that is the average price we are asking for next year.

Mr. Kelley. Do you know what it has been for the past six

months?

Commander Cobey. I have that here.

Mr. Kelley. It is considerably more, because you had this contract at Fall River at \$3.70 per barrel.

Commander Cobey. \$2.75 was the average for the last year.

RESERVE SUPPLY OF OIL.

Mr. Kelley. How much oil have you in storage on the Pacific! Commander Cobey. In the Pacific, starting with San Diego, as of the 28th of February, 91,000 barrels in storage. There is no storage in the vicinity of San Francisco. At Puget Sound, which is the next point of storage—the only other one on the coast—203,000 barrels.

Mr. Kelley. You do not have any storage midway between, near

San Francisco?

Commander Cobey. There has been an appropriation for store

in the vicinity of San Francisco, but it has not been built.

Mr. Kelley. I thought you said a while ago that your oil ws delivered at some point midway between San Francisco and Puget Sound?

Commander Cobey. Direct to the ships.

Mr. Kelley. You do not need any storage for oil on the Pacife! Commander Cobey, Yes, sir; it has always been considered meessarv.

Mr. Kelley. In case of war you would simply take the print

tanks, storage, and everything else out there?

Commander Cobey. Well, the plans of the department call for

considerably larger storage than we have out there.

Mr. Kelley. Of course, there are large holdings of oil in the vicinity of San Francisco. I do not know how much, but million

nillions of barrels, and in case of the war the first thing Conwould do would be to authorize the Navy Department to take t as we took everything during the war.

niral Coontz. Usually it takes 60 days to get ready for war, hile waiting for Congress to act-

Kelley (interposing). You would not have to wait long for ess to make a law.

niral Coontz. Our war plans call for certain storage on the

Kelley. Admiral, would it keep the Navy going a year? niral Robison. No, sir.

Kelley. How much is there?

miral Robison. I do not think there is more than 2,000,000 barn storage altogether on the Pacific coast. I can obtain the figure, I think.

Kelley. How much oil have we in storage as a result of leases on the reserves?

miral Coontz. We have not any yet.

miral Robison. None.

. Kelley. When will we have?

miral Robison. Up to date all of that has been turned into the ury.

. Kelley. Is not the royalty paid in oil?

retary Denby. They pay the royalty in oil. The oil royalty nto reserve, and it is there now. I can not tell you how much it do not think the Interior Department can tell you.

miral Robison. There is none yet; there will be some. eretary Denby. I do not know how much money it is. tary of the Interior may know.

. Kelley. The leases have been made to oil people in the vicinnd they pay us in oil? eretary Denby. Yes, sir.

. Kelley. And they store it for us?

retary Denby. The proposition will probably be that they will inge oil at certain stations for the oil which they take out. It new. We have only begun to tap those wells. There is no at present to estimate.

. Kelley. Have you not any data at all?

retary Denby. We have not been controlling it. We knew that il was being drained off, and we turned it over to the Interior rtment.

OIL WELLS ON NAVAL RESERVES.

. French. Let me explain this situation. I am a member of nterior Department subcommittee. When we had our hearings, I something of an opportunity to go into this question, because ne fact that the Bureau of Mines has been charged with the onsibility of cooperating with the Navy Department in handling oil problem in connection with the naval petroleum reserves. Interior subcommittee felt that since the benefits of this service to accrue to the Navy, the Navy should be charged with the opriation for maintaining it, although the Interior Department I be expected to handle the work for the Navy as heretofore, the Navy paying over to the Bureau of Mines of the Interior Department the money properly charged to the Navy for services rendered. As the members know, there have been set apart several areas in the oil fields for the benefit of the Navy. These fields are in California, Wyoming, and, by way of leases, in Oklahoma. I believe it is the policy of the Navy to hold the oil in storage in the ground within these naval oil reserves wherever possible. On the other hand, there are several fields where private interests own lands that are checkerboarded throughout the Navy holding. In California, for instance, the Southern Pacific Railroad Co. and the Standard Oil Co. own large acreages. These concerns and others in some places are drilling wells on their own properties near the lands owned by the Navy, and they are pumping out the oil. Necessarily they are depleting the pool underneath the naval lands as well as their own, and the Navy will lose unless it shall sink offset wells and take out its share of oil from the naval reserves.

It is the policy of the Navy to do this very thing, and the Bureau of Mines is charged with the technical responsibility of handling the matter. The wells on naval lands are drilled by lessees on a percentage basis, the Navy receiving from 12 per cent to 35 per cent of the oil produced, depending upon the grade of the oil and the amount from each well. Director Bain, of the Bureau of Mines, has assured me that there is keen competition, and in his judgment the Navy Department is thus receiving the benefit of competitive bids. Part of the work, too, in the Bureau of Mines has to do with inspecting oil wells to see that injury shall not be done the fields. has to do with gauging the oil produced. Part of it has to do with handling the leases and seeing to it that the Navy Department receives adequate lease contracts. Again, the crude oil is not available for naval use; consequently this oil must be disposed of for refined oil, and the general policy followed is for the exchange to be made of crude oil belonging to the Navy for refined oil suitable for the ships The Bureau of Mines handles this work. Again, in some places it's more advantageous to sell the oil than it is to store it: in others it is more advantageous to store the oil for future use. Arrangements for storage facilities, determination of proper charges, etc., all of these matters are handled by the Bureau of Mines for the Navy.

The chairman has suggested the advisability of having an inset made in your hearings from the hearings before the Interior Department committee showing the compensation paid to employees engaged in this type of work and I am inserting herewith the statement taken from the Book of Estimates.

FROM ESTIMATES FOR THE BUREAU OF MINES.

⁴ Estimated.

pert drillerchnical examiner	\$3,600 3,600
gaugersgineering draftsmen 1	2, 100 2, 100
gineering draftsman	1,800
nior oil clerk	1,680 1,500
nior oil clerk, per month \$125 1	1,500
nior oil clerk, per annum erk	1,260 $1,500$
el and per diem in lieu of subsistence of \$2.50, \$3, \$3.50, and \$4, suant to section 13 of the sundry civil act, approved Aug. 1, 1914	1,500
Stat. 680)	
hones and telegramsheat, and light	900 2, 400
irs	13,000
lies	6,280
oment	5, 400
·	5, 400

rector Bain has advised me further that the salaries paid to the lovees necessary in handling this work within the Bureau of as are as reasonable as may be, when taken into consideration salaries paid similar employees in private work in the same

shall ask the Navy Department for a statement showing the genplans of the department touching the naval oil lands and shall t it at this point.

OIL ROYALTY.

r. Kelley. They are asking for \$100,000 to pay men who just k the oil and see that it is properly delivered to you, and all

Do you know anything about that? Imiral Robison. Yes. For the care, custody, and maintenance he have petroleum reserves I will need \$100,000. Up to about 1st of November all the royalties from oil received for the act of the Navy were transformed into cash and under the law hat cash was turned into the Treasury under the heading of misneous receipts. The amount turned in was somewhat in exof \$3,000,000. It is in the future that the reserve may help Navy. We never got one cent's worth of benefit from it, except e extent—

r. Kelley (interposing). That was cash oil royalty?

lmiral Robison. That was all oil royalty. In the first instance, ad to dispose of it and we had no form of disposing of it exby sale.

r. Kelley. Could not you sell it yourself?

Imiral Robison. We could have, perhaps, but what would have the difference?

r. Kelley. Could you not have bought it out there?

lmiral Robison. Yes, sir; but it would not have made any differe, it would have gone into the Treasury just the same. There ed no use of complicating the books. Under the present agreethe Secretary of the Interior has undertaken to handle the e proposition.

Mr. Kelley. You think that we can not figure on it this yes

Admiral Robison. I know that you can not.

PRICE OF GASOLINE.

Mr. Kelley, Now, gasoline.

Captain Leutze. We estimate that we will need 3,289,500 gallot of gasoline, at 24 cents a gollon, \$789,480.

Mr. Kelley, 24 cents a gallon?

Captain Leutze. Yes, sir.

Mr. Kelley. The last gasoline I bought for my car was only : cents, retail. How can that be right!

Mr. Byrnes. You can buy gasoline for 24 cents in Washington

now.

Mr. Kelley. At retail?

Mr. Byrnes. Yes, sir.

Mr. Kelley. I do not believe there is a place in the United State where they pay that much.

Admiral Robison. Some of the gasoline is not used in the Unite

States.

Commander Cobey. Most of this gasoline is in drums and that causes the price to be more than the bulk price. The average 24 cents, but most of the gasoline has to be handled in drums. The costs a great deal more than tank-wagon deliveries.

Mr. Kelley. How much do the drums hold?

Commander Coney. Fifty-five gallons. The small boats have to have them. Our price on gasoline was exactly the same as the market price—in fact, when our contract was made in December it was below the market price. We got about 1 cent off on account of the large quantity we bought.

Mr. Kelley. Can not you work out some other way of getting this gasoline without paying that enormous price?

wholesale price of gasoline now in bulk?

Commander Coney. The wholesale price at Port Arthur is about 16 cents. That is exactly what our contract is. When we can w put a tanker in at Port Arthur that carrier gasoline, as, for instance the Arcthusa, which is on her way there now. We figure that it will save \$8,600 on one trip alone to Guantanamo, because she will put the gasoline direct into tanks, and there it will be put into drums and sent out to the ships.

Mr. Kelley. Have you the drums to take care of that? Commander Cobey. Yes, sir.

Mr. Kelley. Then you will not need but 16 cents next year! Commander Cobey. Oh. no: that is for the situation at Gus tanamo, where they have bulk storage.

·Mr. Kelley. You have drums enough for the whole service! Commander Cobey. No. sir. The ordinary purchases are in drums

Another vessel, the Brazos, is carrying drums to Port Arthur be filled with gasoline, which will be at a price of 18.5 cents. The is because the fleet is down in that vicinity. Up here is would me as high as 27 cents. The quantity of gasoline used in bulk is me much smaller than that used in drums.

Mr. Kelley. I do not quite get that straight. You have on hand drums enough in the Navy to supply the Navy's needs?

Commander Cobey. No, sir; it is only those vessels with the fleet.

Mr. Byrnes. Can you reuse the drums?

Commander Cobey. Yes, sir.

Mr. Byrnes. Are you not accumulating a supply of drums?

Commander Cobey. No, sir; the supply is not increasing.

Mr. Byrnes. If you keep on using them, it seems to me you would increase the supply of drums?

Commander Cobey. A great deal of gasoline is used at shore stations where there are no facilities for handling it except in drums; it has to be delivered in drums.

Mr. Kelley. Do you swap drums with the contractor; that is, when he gives you a full drum you give him an empty drum?

Commander Cobey. At most of the points we have been getting an accumulation of drums.

Mr. Kelley. You say that you have drums enough for the fleet? Commander Cobey. We have drums enough for the fleet when it is operating as a fleet, but the gasoline is used in many places where there are no drums.

Mr. Kelley. You can use any quantity and you get that at 16

Commander Cobey. On the Asiatic Station, at Pearl Harbor, and he European stations it is all obtained by drum deliveries, pracically all, and that is very expensive.

Mr. Kelley. If you owned the drums it would be just a question of delivering them on your cargo ships—you probably would not

arry gasoline on anything but a special ship?

Commander Cobey. We do not; no. We do not send any Governnent drums to Europe or the Asiatic Station, or to Pearl Harbor.

Secretary Denby. Why do you add the price of the drum to the

ost of the gasoline?

Commander Cobey. We have not sufficient Government drums, Ir. Secretary. Our Government drums are only about one-fifth of he needs, and the rest of the gasoline has to be bought in conractors' drums.

Mr. Kelley. Gasoline in a contractor's drum costs 8 cents more a

gallon than it would if bought in bulk at some other place?

Commander Cobey. Yes, sir.

Mr. Kelley. Do you own the drums?

Commander Cobey. The drums do not become the property of the Government.

Secretary Denby. The inherent fact is that the cost of gasoline in the drums is 24 cents a gallon, according to your figure?

Commander Cobey. About 27 cents in the drums.

Secretary Denby. And if you had your own containers down at Port Arthur it would only cost 16 cents, approximately?

Commander Coney. Yes, sir.

Mr. Byrnes. Do they make you pay for the use of the drums? Commander Cobey. Yes, sir; for the labor required in the conactor's filling the drums.

Mr. Byrnes. Filling the drum with gasoline does not involve very • uch labor.

Secretary Denby. It keeps the men busy all the time.

Commander Cobey. All of the gasoline in the city is bought in bulk.

Mr. Byrnes. The man down here on Pennsylvania Avenue who has to pay rent and a licensee fee and labor sells it to me for # cents and your man sells it for 24 cents because of the labor of puting it in the drums.

Commander Cobey. The damage to the drum is figured at from 3 to 5 cents.

Admiral Coonty. As I understand it, it is all straight. It has to be delivered from where they get it to each coast, a long distance.

Commander Cobey. And that includes freight. Admiral Coontz. There is a very great element.

Mr. Kelley. If you had at Hampton Roads some gasoline storage. how much would it cost you to fill the drums—55 gallons?

Commander Cobey. I have not that figure.

Mr. Kelley. You are paying \$2.40. It does not seem to me that it would cost \$2.40 to fill a 55-gallon drum.

Commander Cobey. All the oil companies have fixed charges—

they are about the same.

Mr. Kelley. If you go down to Port Arthur and get it and bring it up in drums at wholesale you can get quantities at 16 cents. When they put it in the drums it costs 27 cents.

Commander Conex. We have only one tanker at present on this coast that will carry gasoline in bulk. The rest has to be carried

in drums.

Mr. Kelley. They have to be specially constructed for gasoline! Commander Conex. Yes, sir. It is very hard to make a companment on an oiler tight enough for gasoline.

Mr. Kelley. Offhand it seems that there is quite a leakage. Mr. Reed. We are discussing Port Arthur and trying to apply it to different points. The bulk price at Port Arthur is 16 cents. If we furnish the drums and they put it in the price is 18.5 cents. Mr. Kelley. But they charge you 27 cents to fill the drum?

Mr. Reed. Not at that particular point. At Norfalk the bulk delivery price is 19.5 cents, whereas for delivery in the drums it is 27.5 cents.

Mr. Kelley. That is quite a big element. Your position is this that in any event they have to deliver it to Hampton Roads because you have not the necessary facilities there?

Mr. Reed. In bulk it is 19.5 cents and in drums they charge 27.5

Mr. Kelley. Your gasoline at Hampton Roads costs you 19.3 cents?

Mr. Reed. In bulk.

Mr. Kelley. How in the world can these people in Washington sell it at 23 cents at retail?

Mr. Reed. They get it for 1 or 2 cents less than that because it \$

delivered in tank wagons.

Mr. Kelley. If it were delivered in bulk at Hampton Roads we

say that it would cost 19.5 cents?

Mr. Reed. Yes, sir; we have no storage there. In New York and in Baltimore it is 19.5 cents in bulk and in Boston it is 20.5 cents in bulk.

Mr. Byrnes. What is the economical thing to do, to put storage Something should be done, do you not think, so that you

Nould be able to buy it cheaper.

Admiral Robison. The proper thing to do is to put in machinery Lat will not burn gasoline but will enable us to use fuel oil instead. The one will cost us about, at most, 7 cents a gallon, and the other >sts us at present 24 cents. One we can carry safely; the other we Ln not.

Mr. Kelley. This is for the launches and things like that on board

e ships?

Admiral Robison. Yes, sir; but the amount of gasoline could be duced by changing the character of the machinery.

Mr. Kelley. That would cost a lot of money. Admiral Robison. Yes, sir; it would take a lot of money.

Commander Coney. On the west coast gasoline runs as high as

Mr. Kelley. How many subchasers did you include in this gaso-

ne estimate, any?

Captain Leutze. No, sir, no submarine chasers. Secretary Denby. Is not the cost given by Supplies and Accounts nother case of uniting various costs and averaging up the cost of 24 ents for gasoline? That means the cost of gasoline in Europe and isia and on the east and west coasts?

Captain Leutze. Yes, sir.

MEMORANDUM REFERBING TO GASOLINE, YEAR 1923, BUREAU OF SUPPLIES AND ACCOUNTS.

The estimate of gasoline requirements for fiscal year 1923 is based on the otor boats attached to the various naval vessels, such motor boats to operate an average of 51 hours per month each, as follows:

0.	Class of vessel.	Number of boats.	Operat- ing 51 hours per month.	Total for 12 mouths.	Value.
12 4 3 3 1 1 65 50 4 M 10 4 5 57 1 1 1 2 7 2 5 3 1 × 10 4	Battleships. Cruisers, second line Light cruisers, first line Light cruisers, second line Aircraft carrier Mine layer, second line Destroyers, active Destroyers, reserve Light mine layers Submarines Patrol, gunboats Patrol Destroyer tenders Submarine tenders Submarine tenders Aircraft tender Repair ship Store ship Colliers Ammunition ships Cargo vessels Transperts Hospital ship Togs Mine sweepers Auxiliaries, miscellaneous	25 6 13 8	86, 904 11, 628 15, 202 3, 570 4, 336 3, 366 19, 800 1, 224 None 4, 284 6, 834 24, 939 32, 638 5, 100 2, 754 3, 060 1, 122 4, 198 4, 198 4, 198 1, 130 13, 1117 1, 326 2, 040 5, 661	1,042,848 139,536 62,424 42,840 52,632 40,392 238,680 183,600 14,688 None. 51,408 299,268 390,456 61,200 13,048 36,720 13,444 15,976 56,304 18,360 157,284 47,736 15,912 24,480 67,932	\$250, 283, 52 33, 488, 64 14, 981, 76 10, 281, 60 12, 631, 68 9, 694, 094, 9, 694, 094, 12, 337, 92 19, 681, 92 71, 824, 92 19, 681, 92 19, 681, 92 19, 681, 92 11, 824, 92 14, 488, 00 17, 931, 52 8, 812, 80 4, 406, 40 37, 748, 16 11, 466, 44 3, 818, 88 5, 875, 20 10, 303, 68
26		655	269, 433	3, 233, 196	775.967.04

Shore activities craft: 1 Privateer 1,530 b	•	
	· 3%) \$4	4.16.0
1 Clarinda	9,54	4.70 K
		1.164
2 Ambulance boats	2,240 2	2.90.0
5 4,692	6,304 13	3.512.4
303 Grand total	J. 5(B) 74	9, fri 3

Memorandum for the case.—Estimated expenditure of gasoline for motor bath (yallons per hour).

50-foot motor sailing launches, 40-foot motor sailing launches. Navy KK 20-horsenower engine	10
35-foot motor boats, Van Blerk 6-cylinder or Sterling 6-cylinder 100-hors- power	31
26-foot motor lifeboats, Kermath 4-cylinder 20 horsepower 36-foot motor sailing launches, 36-foot motor ambulance boats, Navy HH	ļu
engine 33-foot, 30-foot, 24-foot motor sailing launches, Navy GG engines	4
26-foot motor boat, Navy GG engine	:
50-foot motor boat, 100-horsepower engine	21]#
36-foot special survey boats, Buffalo Commercial engine 30 horsepower 30-foot twin-screw motor boats, 2 Commercial engines 10 horsepower each_ 24-foot motor surfboats]0]3

Note 1.—Some of the vessels have 40-foot motor barges for flag duty. The have eight-cylinder engines and will use about 40 gallons per hour.

Note 2.—Above information furnished by the Bureau of Engineering Match 17, 1922.

Mr. Kelley. How much are these drums worth?

Commander Cobey. About \$7 apiece.

Mr. Kelley. I should think that it would be a good thing to but

enough drums.

Commander Cobey. The experiment has been tried out. We do at Hampton Roads and Guantanamo, because we have one tankers present on this coast that can carry gasoline in bulk, but for met of the stations on this coast and all the stations on the west cost where the price run up as high as 36½ cents in drums and as high at 22.5 cents in bulk at Pearl Harbor, 21.5 cents at San Diego, and seems in bulk at Puget Sound, it is not economical.

Mr. Kelley. The proposition is this: Those drums only costs and they deliver that oil to you at Hampton Roads in drums at cents; it would be much cheaper for you to have it delivered in bull at 19.5 cents, as Mr. Reed says, and put it in the drums yourself and

supply your Atlantic stations.

Commander Cobey. It is cheaper where a large number of druss can be handled. Where only a small number can be handled. significantly the case, the deterioration of the drums and the cost of them is so great that it has been found to be uneconomical to hands gasoline in bulk.

Mr. Kelley. You pay for your drums the difference between 195

cents and 27 cents; that is, 8.5 cents a gallon?

Commander Coney. Frequently a drum will not last more than a

w handlings. Mr. Kelley. With 55 gallons, that is \$4.40 when the drum does not

st but \$7. That does not look like very good business. Commander Cobey. The repairs to the drums are very costly, and any times after a drum has been sent out to the fleet it has to be paired. Both plans have been thoroughly tried. In some cases is economical, but in most cases it is not.

Mr. Kelley. Are there different types of drums varying con-

derably in price?

Commander Cobey. Yes, sir. The price varies with the steel arket.

Mr. Byrnes. What is the average life of a drum of the size you andle—you say that you can not use a drum but several times? Commander Cobey. If it is sent out to the fleet and distributed to e ships filled with gasoline and it comes back, probably 25 per nt of the drums have to be repaired before further use.

Mr. Byrnes. What are they made of? Commander Coner. Fourteen-gauge steel.

Mr. Kelley. How many more drums do you need to handle your

Commander Cobey. I think we would need roughly about 12,000 re drums.

Admiral Potter. And you have to allow 20 per cent for reacements?

Mr. Kelley. That would be \$84,000, and you need 3,289,500 gallons gasoline. How much does it cost to deliver a tanker down there d put the gasoline in?

Commander Cobey. I do not think we have any figure. Mr. Kelley. How often do you have to replace the drums? Commander Cobey. We figure roughly on replacing them after ree fillings. It all depends upon where the drums go. Mr. Kelley. You have worked it out so that you think you are ndling it in the most economical way?

Commander Cobey. That has been worked out thoroughly.

MAINTENANCE OF FUEL DEPOTS.

Mr. Kelley. Can you give me the items for fuel plants? Captain Leutze. We have a statement covering that. Mr. Kelley. You may place this statement in the record. Captain Leutze. I will do so.

of maintenance of fuel depots and fuel plants at navy yards and stations. Furgeable to the appropriation "Fuel and transportation," fiscal year 1923.

Name of station.	Labor.	N. S. A.	Total.
Lamoine, Me. smouth, N. H. on. Massport, Torpedo Stationille, Fuel Depot York, Navy Yard. stab'e Hook. N. J. fuel depot. y yard. Phi adelphia, Pa. y yard. Washington, D. C.	12, 645. 12 23, 373. 24 47, 382. 24 7, 078. 56 29, 552. 88 8, 315. 52 1, 616. 16	\$5, 382. 36 2, 483. 28 42, 037. 32 36, 764. 40 1, 535. 16 12, 000. 00 2, 508. 24 196. 08	\$988. 32 18, 627. 48 25, 856. 52 42, 037. 32 84, 146. 64 8, 613. 72 41, 552. 83 10, 828. 76 1, 812. 24
y yard, Norfolk, Va		27,360.00	1, 795. 92 50, 216. 28

Cost of maintenance of fuel depots and fuel plants at navy yards and station chargeable to the appropriation "Fuel and transportation," 1923—Continued.

Name of station.	Labor. N	. S. A.	Total
Sewalls Point, fuel depot	2909.36 23	3, 666, 84	\$4,696
Newport News, fuel depot		458, 40	13 744
Naval operating base	18, 873, 36 10	, 685. 40	29,534
Navy yard, Charleston, S. C.	3,302,16	107. 52	3 496
Naval air station, Pensacola	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 297. 76	5 997
Naval station, Key West, Fla	5, 565, 96 1	099.68	6 465
Submarine base, San Pedro.		955.32	955
Naval fuel depot, San Diego	38, 126, 16 11	. 991. 00	50, 117,
Naval air station, San Diego		.647.72	7,647
San Francisco Training Station.	The construction of the first o	. 890, 40	6.400
Navy yard, Mare Island	13 076 16 20	0.091.84	34,006
Naval fuel depot, Tiburon		. 593, 52	51, 341
Navy yard, Puget Sound	18,489.60 4	715. 16	23, 294
Navy yaru, ruget sound	10, 200, 00	. 594, 72	9.394
Forpedo station, Keyport	43, 169, 28 11	859, 84	9,3%
Navar Station, Pearl Harbor	40, 100, 27		24, 200
Submarine base, Coco Solo	10 100 00	, 230, 76	22,658
Naval base, Guantanamo, Cuba	18, 163, 20 4	, 496, 40	48 (W)
Naval station, Olongapo	16, 208, 16 31	, 883. 40	129 331
Naval station, Cavite	31,080.12 98	, 231, 76	126,011
Navalstation, Guam	14	, 229. 24	14,000
Naval fuel depot, Yokohama	2,573.16		2,00
Naval fuel depot, Pichilinque	5, 184.00	*******	5,180
Naval station, St. Thomas		, 200, 20	5,200.
Naval station, Tutuila		, 853, 40	10,825
Navalstation, Santo Domingo		, 640. 44	18,641
Naval air station, Coco Solo		, 159. 20	7,138
Total.	429, 248, 88 446	. 846, 76	876,096

The above statement prepared by using actual expenditures reported for the month of January, is, as a basis, the figures representing 12 times the amounts reported for that month.

Mr. Kelley. How much have you spent so far this year on the maintenance of these stations?

Commander Cobey. Less than half of the total shown there. This is based on the January expenditures, and this maintenance has been coming down gradually for the past 18 months.

Mr. Kelley. Can you give the exact figures so far this year, or at

the last available date?

Commander Cobey. We can procure that and insert it in the record.

Mr. Kelley. Are not these maintenance costs susceptible of being

reduced on account of the falling price of some materials?

Admiral Coontz. I think all of that has been taken into account Captain Leurze. We have reduced it from the previous figures! great deal. We have cut the estimates for next year under the penditure for the present year. I have the figure for the months ending February 28, the amount being \$849,084.05, and estimate is \$876,000 for 12 months.

Mr. Kelley. Some of these will probably be pretty well designed

down, will they not?

Captain Leurze. That is dependent upon the navy yards out of commission. A number of these are at navy yards. Lamaine is gone, and the coal storage at Newport News will go as soon as the coal is used up, but we can not say how soon that be, so we put in an estimate for it., The other stations depend up the closing of certain navy yards.

Mr. Kelley. You have made quite a substantial reduction in M

estimate at navy yards?

Captain Leutze. Yes, sir; they are cut down a great deal will the previous figures.

Ir. Kelley. Do you think we can cut them a little more? aptain Leutze. I do not believe we can. I went over them with a -tooth comb the other day in order to cut them down.

Ir. Kelley. That is about all there is, except some minor items, uding tug hire. Where do you have to hire tugs; have you not

ugh Navy tugs all around?

ommander Cobey. That is where deliveries are made by barges, scipally at foreign stations, or at places in the United States are coal or oil is delivered by barge. When the barge is not disreged in time there is a demurrage charge and also a tug-hire rge. It is not a large figure.

porting sheet for memorandum of 20 March reestimate under "Fuel and transportation, 1923."

WATER. 436.93 426.88 863. 81 six months multiplied by 2=197,727.62 for 12 months, 1922. 727.62 multiplied by 0.598 ratio vessels to be in commission in 1923. 824. 11 added 10 per cent to cover vessels not reporting. 065, 23 ICE. 232. 54 six months multiplied by 2=46,465.08 for 12 months, 1922. 465.08 multiplied by 0.598 ratio vessels to be in commission in 1923 778, 61 added 10 per cent to cover vessels not reporting. 564, 73 TUG HIRE. 000, 00 12 months, 1922. .598 multiplied by ratio vessels to be in commission in 1923. 392.00 added 10 per cent to cover vessels not reporting. 312.00 ELECTRIC CURRENT. 933. 82 six months multiplied by 2=247,867.64 for 12 months, 1922 867. 64 multiplied by 0.598 ratio vessels to be in commission in 1923. 822, 49 added 10 per cent to cover vessels not reporting. 047.34 DEMURRAGE. 000, 00 12 months. 1922. .598 multiplied by ratio vessels to be in commission in 1923. 196.00 added 10 per cent to cover vessels not reporting. 56,00

Estimates, 1923—Cost of leased fuel-oil storage tanks (rental and handling charges) and property used for naval fuel depots chargeable to the appropriation "Fuel and transportation," fiscal year 1923.

Location.	Owner.	Capacity (barrels).		Total.
Sewall Point, Va			Rental	\$12,000, on 17,910.24
Cristobal, No. 151	do	42,000	Rental, \$3,500; handling, \$6,911.44.	10,411.44
Constantinople	Standard Oil Co. of New York.	42,345		36,000.14
Naval fuel depot, Constable Hook.	Standard Oil Co. of New Jersey		do	
Naval fuel depot, Sewall Point, Va.	Virginian Ry. Co	(2)	do	1.
Naval fuel depot, Newport News, Va.	Chesapeake & Ohio Ry. Co	(3)	do	1.16
Total	! 			92,966.64

Handling charges shown above based on actual issues for the 12 months ending January 31, 1922, at 10% per barrel into and 10.04 per barrel out of tanks.

Captain Leutze. The Standard Oil Co. will make a charge for tugs if you hold the tugs over a certain number of hours, because they have to pay for the overtime.

Mr. Kelley. Of course, while we have plenty of tugs, there are times when we need tugs at places where we have not any, and we have to hire them.

Commander Cobey. Yes, sir; and the demurrage is more or less the same way.

ALASKAN COAL DEVELOPMENT.

Mr. Kelley. I think these are the most illuminating and helpful details that I have ever seen since I have been here in connection with the fuel item. This has always been a more or less trouble some item, because it can not be reduced to an exact science.

There is one thing in connection with fuel. How much coal will represent the Alecke development?

we realize from the Alaska development?

Secretary Denby. That is another uncertain thing. That has been turned over to the Interior Department, and they are blocking out the naval reserves.

Mr. Kelley. They do not intend to take any coal out of them! Secretary Denby. Yes, sir; there will be coal coming out of them and we will, perhaps, buy it like anybody else. That can be kept indefinitely underground.

Mr. Kelley. You could save a lot in freight by getting coal up

re, could you not?

Admiral Robison. The Secretary of the Interior sent in a letter king about a differential in favor of Alaska coal over east coal at Pacific points, so as to furnish a market for it. According our estimates, it will cost to deliver Alaska coal in Seattle about .50 per ton more than it costs to deliver Pocahontas coal at Seattle.

do not think that condition will continue, but it is the condition at ne present time.

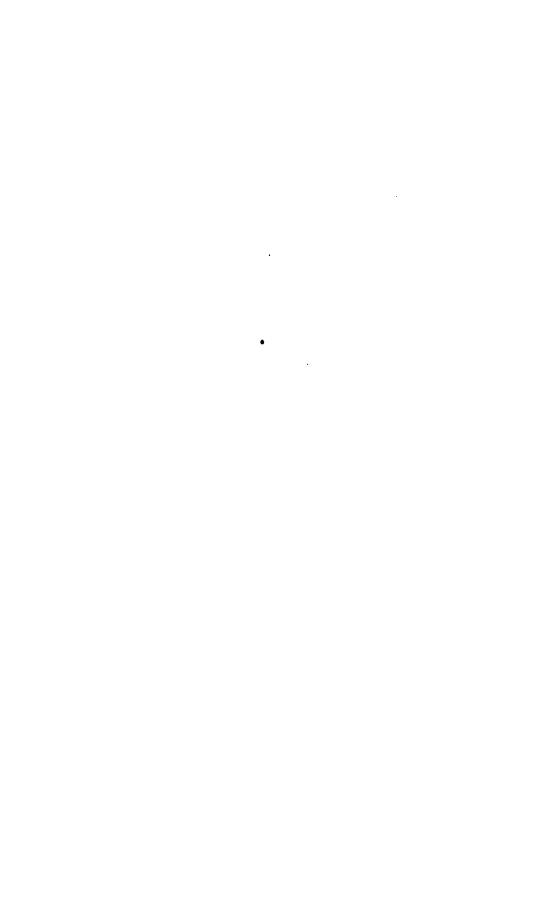
Mr. Kelley. Do they haul it down by wagons?

Admiral Robison. No, sir; over the Alaska railroad, but the laska railroad rates are not very low.

Mr. Kelley. Under the circumstances, you will not want this

1.000,000?

Secretary Denby. No, sir; we have asked for \$100,000. Mr. Kelley. You want the language in with the \$100,000? Secretary Denby. No, sir; we do not want anything for that.



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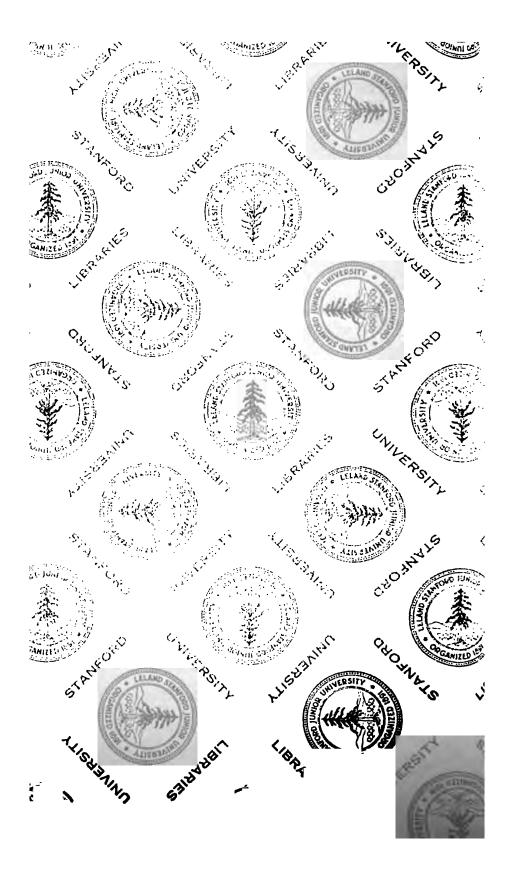
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